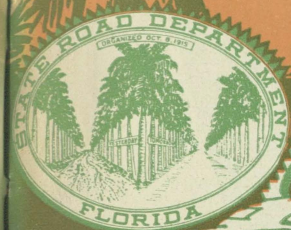


# FLORIDA

## Highways

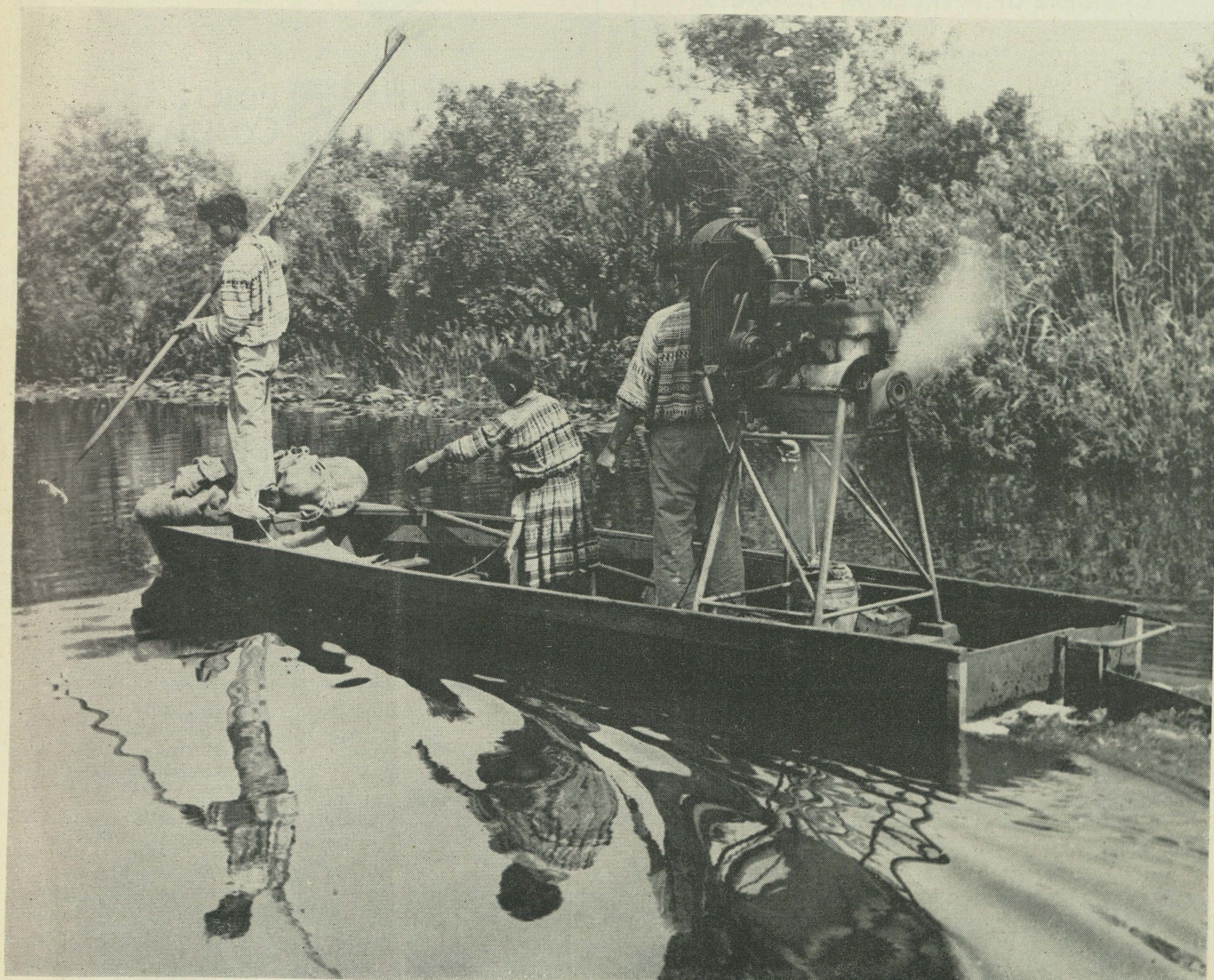


Official Publication of

State Road Department of Florida---Florida Highway Patrol

VOLUME 11  
NUMBER 3

FEBRUARY 1943



Although, like the rest of us, probably complaining of the shortage of gasoline, the Florida Seminole gets around in his search for food. Here he is going up one of the many streams of the Everglades in search of frogs and crabs in a craft which is powered by an old Ford engine and an air propeller. This photo, by the Miami News Service, illustrates the advancement the Seminole has made in taking advantage of the white man's inventions. (Story on page 11.)



## Winter Garden Citrus Growers' Association

BULL FROG, CRANE, MOR-JUCE,  
SEALD-SWEET BRANDS

Affiliated With

Florida Citrus Exchange  
Growers' Cooperative Marketing Association  
P. C. PETERS, Secy-Mgr.

WINTER GARDEN

FLORIDA

NIEUPORT B. ESTES, Chairman of the Board  
H. A. PILLARS, President  
CARL F. CRAWFORD, Secretary and Treasurer

## Motor Fuels Transport, Inc.

CARRIERS OF PETROLEUM PRODUCTS

200 S. TAMPA ST.

TAMPA

FLORIDA

BRANCHES:

ATLANTA, GEORGIA      MACON, GEORGIA  
PANAMA CITY, FLORIDA

FLORIDA PRODUCTS  
for  
FLORIDA  
CONSTRUCTION



FLORIDA  
CEMENT



PORTLAND  
COMPANY

## RAND'S COMPLETE SERVICE

RENT A CAR—YOU DRIVE IT

Opposite San Carlos Hotel      17 East Garden St.      Dial 6262

24 Hour Service — Storage

Pensacola, Florida

## B. B. McCORMICK AND SONS

TRANSIT-MIXED CONCRETE  
BULKHEADING  
GRADING

Jacksonville Beach, Florida

—INCORPORATED—  
GENERAL CONTRACTORS

ROAD CONSTRUCTION  
MARINE CONSTRUCTION  
RIGHT OF WAY CLEARING

616 Graham Bldg., Jacksonville, Florida

TRACTORS  
DRAG LINES  
ROLLERS  
SCRAPERS  
ETC.

ROBERT J. DILL  
CONTRACTOR

Phone 5-4544—5-2123  
1525 BARNETT BUILDING

P. O. Box 176  
JACKSONVILLE, FLA.

GRADERS  
BULL-DOZERS  
TRUCKS  
CONCRETE MIXERS  
ETC.

# SHERMAN CONCRETE PIPE CO.

JACKSONVILLE  
Phone 5-8234

TAMPA  
Phone H3556



# Transactions of Meeting of Florida State Road Department

## HELD IN TALLAHASSEE JANUARY 22

The State Road Department of Florida held its first quarterly meeting for the year 1943 at Tallahassee on January 22, with the following members and officials in attendance:

Thos. A. Johnson, Chairman; Jack F. Townsend, James R. Stockton, O. G. Lindsey, C. Fred Ward, Members; H. H. Baskin, Secretary; L. A. Fraleigh, Jr., Assistant Secretary; J. H. Dowling, State Highway Engineer; L. K. Cannon, Asst. Highway Engineer; W. A. Kratzert, Maintenance Engineer; J. C. DeCamps, Right of Way Engineer; E. S. Fraser, Bridge Engineer; J. W. Allen, J. R. Slade, H. H. McCallum, N. S. Emery, W. D. Leville, Division Engineers; R. W. Ervin, Jr., Pat Shannon, Assistant Attorneys; R. J. Watterston, Jr., Auditor.

### APPROVAL OF MINUTES

On motion of Mr. Stockton, seconded by Mr. Lindsey, the minutes of the meeting of November 30 were approved.

<b>Bids received Oct. 29</b>	
DA-NI 13(1) .....	556
<b>Bids received Dec. 3</b>	
SN-FA 167 F(1) .....	3
<b>Bids received Dec. 22</b>	
W.O. 0216 .....	17

<b>Bids received Dec. 31</b>	
DA-NR 16(1) .....	Rd. 3

<b>Bids received Jan. 6</b>	
WH Acct. 8431 .....	Avalon
5101 (4) .....	Ft. Lauderdale
SN-U-FAS 78-1 .....	Fla. City

On motion of Mr. Ward, seconded by	
St. 5277(2) .....	Rd. 27
FA 117-A(1) .....	21
5134(3) .....	363
DA-WR 5(1) .....	341-32

### ORANGE COUNTY—ROAD 22—PROJECT 5586(949)—RIGHT OF WAY

On motion of Mr. Ward, seconded by Mr. Townsend, the following resolution was adopted:

WHEREAS, pursuant to due authorization, the State Highway Engineer has had a section of State Road No. 22 in Orange County located and surveyed and has designated the same as Project 5586(949) and has prepared a right of way map of said project;

NOW THEREFORE BE IT RESOLVED by the State Road Department that it hereby approves the location and survey of said project and directs that a copy of said right of way map of such location and survey certified to by the Secretary and the Chairman of the Department, be filed in the office of the Clerk of the Circuit Court of said County;

BE IT FURTHER RESOLVED that it is the judgment of the Department that the construction of said project is necessary, practical and to the best interest of the State, and that it is necessary that the right of way for the roadbed, ditches, and borrow pits for said project be acquired;

BE IT FURTHER RESOLVED by the Department that said County be, and it is hereby requested and authorized, at its own expense, in its name, by its Commis-

### ELECTION OF CHAIRMAN AND SECRETARY

On motion of Mr. Stockton, seconded by Mr. Lindsey, the members voted unanimously for Thos. A. Johnson and H. H. Baskin to serve the Board as Chairman and Secretary, respectively, for the year 1943.

### MEMBERS' EXPENSE ACCOUNTS

On motion of Mr. Lindsey, seconded by Mr. Ward, the expense accounts of the members were approved and ordered paid, as follows:

Ward .....	\$122.95
Ward .....	1.49
Ward .....	58.15
Ward .....	15.71
Ward .....	11.15
Townsend .....	66.40
Townsend .....	15.03
Lindsey .....	25.70
Lindsey .....	7.70

### Construction

Hillsborough .....	
Orange .....	
Polk .....	
W. L. Cone .....	\$ 30,714.06
Brinson Constr. Co. ....	102,985.17
John E. Ballenger Constr. Co. ....	25,282.65

### Materials

Slag .....	
Slag .....	
Semi-solid Asph. ....	
Tr. Tbr. & Piling .....	
Tr. Tbr. & Piling .....	
Birmingham Slag Co. ....	\$ 959.85
Woodstock Slag Corp. ....	959.85
PanAm Petrol. Corp. ....	865.23
Eppinger & Russell Co. ....	
Tampa Lbr. & Creos. Co. ....	*110,503.35
* Note. To be divided between the two according to amount each can deliver.	
Pensacola Creos. Co. ....	\$ 29,433.88
Tampa Lbr. & Creos. Co. ....	6,537.82
Merrill Dynamite Co. ....	3,352.75

### APPROVAL OF SUPPLEMENTAL AGREEMENTS

Mr. Lindsey, the following supplemental

Dade .....	
Volusia .....	
Duval .....	
Highlands & Polk .....	

sioners, to secure by gift, purchase or condemnation, the lands necessary for the right of way for the roadbed for said project as shown on said map or plat, together with any and all easements for drainage ditches and borrow pits that may hereafter be found and determined necessary in the construction and maintenance of said project, and to convey same to this Department free of encumbrance; and

Be IT FURTHER RESOLVED that in the event the County agrees to secure the right of way for the roadbed, ditches and borrow pits for said project, that the Chairman and the Secretary of the Department are hereby authorized to execute for the Department the usual right of way contract with the County.

### PINELLAS COUNTY—ROAD 15—PROJECT 5916—RIGHT OF WAY

On motion of Mr. Townsend, seconded by Mr. Stockton, the following resolution was adopted:

WHEREAS, pursuant to due authorization, the State Highway Engineer has had a section of State Road No. 15 in Pinellas County located and surveyed and has designated the same as Project 5916 and has prepared a right of way map of said project;

NOW THEREFORE BE IT RESOLVED by the State Road Department that it hereby approves the location and survey

Lindsey .....	8.40
Lindsey .....	4.25
Stockton .....	14.25
Stockton .....	4.00
Stockton .....	9.75

### APPROVAL OF CONTRACTS AWARDED

On motion of Mr. Townsend, seconded by Mr. Stockton, the following resolution was adopted:

WHEREAS, pursuant to due advertisement, the Department did on certain dates as hereinafter indicated receive bids for the construction of certain projects and for the furnishing of certain materials, as hereinafter listed; and

WHEREAS, the firms hereinafter named were and are hereby declared to be the lowest responsible bidders therefor,

NOW, THEREFORE, BE IT RESOLVED, that the action of the Chairman in awarding the contracts hereinafter listed be and the same is hereby approved, which said contracts are as follows:

W. L. Cone .....	\$ 30,714.06
Brinson Constr. Co. ....	102,985.17
John E. Ballenger Constr. Co. ....	25,282.65

Birmingham Slag Co. ....	\$ 959.85
Woodstock Slag Corp. ....	959.85
PanAm Petrol. Corp. ....	865.23
Eppinger & Russell Co. ....	
Tampa Lbr. & Creos. Co. ....	*110,503.35
* Note. To be divided between the two according to amount each can deliver.	
Pensacola Creos. Co. ....	\$ 29,433.88
Tampa Lbr. & Creos. Co. ....	6,537.82
Merrill Dynamite Co. ....	3,352.75

agreements were approved:

Belcher Oil Co. ....	\$ 390.32	Decrease
M. J. Carroll Constr. Co. ....	3,162.85	Decrease
H. E. Wolfe Constr. Co. ....	50 00	Decrease
W. L. Cobb Constr. Co. ....	43,605.59	Decrease

of said project and directs that a copy of said right of way map of such location and survey certified to by the Secretary and the Chairman of the Department, be filed in the office of the Clerk of the Circuit Court of said County;

BE IT FURTHER RESOLVED that it is the judgment of the Department that the construction of said project is necessary, practical and to the best interest of the State, and that it is necessary that the right of way for the roadbed, ditches, and borrow pits for said project be acquired;

BE IT FURTHER RESOLVED by the Department that said County be, and it is hereby requested and authorized, at its own expense, in its name, by its Commissioners, to secure by gift, purchase or condemnation, the lands necessary for the right of way for the roadbed for said project as shown on said map or plat, together with any and all easements for drainage ditches and borrow pits that may hereafter be found and determined necessary in the construction and maintenance of said project, and to convey the same to this Department, free of encumbrance; and

BE IT FURTHER RESOLVED that in the event the County agrees to secure the right of way for the roadbed, ditches and borrow pits for said project, that the

(Continued on page 19)



**M. B. OGDEN**

**CONTRACTORS EQUIPMENT**

Phone 5-3072      Graham Bldg.

**JACKSONVILLE, FLORIDA**

Buy Bearings from Bearing  
Specialists

**Florida Motor Service, Inc.**

"The Drive-in Parts House"

Distributors

**FAFNIR      R. B. C.      TIMKEN**  
**BEARINGS**

624 W. Adams St.—Phone 5-6244  
**JACKSONVILLE, FLORIDA**

**Epperson & Company**

**MACHINERY AND SUPPLIES**

"Our Eleventh Year"

PHONE 2688

130-132 South Franklin Street  
**TAMPA, FLORIDA**

Sales "EPCO" Service

**HEAVY HAULING LOCAL  
AND LONG DISTANCE**

No Specialty—We Are Experts  
in All Kinds of  
**HAULING, RIGGING, STEEL  
ERECTION and CRANE SERVICE**

**WOOD-HOPKINS  
CONTRACTING CO., INC.**

Phone 5-0340      518 Phelps St.  
**JACKSONVILLE FLORIDA**  
Serving Jacksonville Since 1901

Our Compliments

**State Road  
Department of  
Florida**

and

**Florida Highway  
Patrol**

**LOVETT'S**

General Offices  
Beaver & Barnett  
**Jacksonville, Florida**

**EXPRESS SERVICE**

**R.-C. MOTOR LINES, Inc.**

Charlotte, N. C. Agent—Telephone 3-8770

2504 LAURA STREET

PHONE 5-2518

Baltimore Office—Saratoga 6457

**JACKSONVILLE, FLORIDA**

## **PETROLEUM CARRIER CORPORATION**

**GENERAL OFFICES**

**Jacksonville**

**Florida**

**STATE-WIDE BUS SERVICE**

# **FLORIDA MOTOR LINES**

P. O. Box 329

**JACKSONVILLE**

**FLORIDA**



**GREAT SOUTHERN TRUCKING CO.**

General Office

**JACKSONVILLE**

**FLORIDA**

Serves the principal defense projects in the southeast

**QUINN R. BARTON COMPANY**

Construction—Road Building and Contractors' Equipment

**SALES — SERVICE — RENTALS**

1205 West Forsyth Street

Phone 3-1145


**JACKSONVILLE, FLORIDA**



# FLORIDA HIGHWAYS

Official Publication State Road Department—Florida Highway Patrol

Authorized medium of Motor Vehicle Division and other State departments.

VOLUME 11 FEBRUARY 1943  NUMBER 3

J. E. ROBINSON ..... Publisher  
SAM ELLIS ..... Editor

## CONTENTS

Minutes of Meeting State Road Department.....	3-19
Florida Fourth Estate.....	6
Editorial Page—Tung Oil in Florida; 1943 Session and Taxes; Food Rationing and Seminoles.....	7
Production of Florida Tung Oil.....	8-18
Food of the Florida Indians.....	11-18
Department "In The Army Now".....	12
Capital Chatter.....	13-17
With County Commissioners.....	14
Tentative Budget State Road Department.....	24

A magazine of general circulation and general public interest dedicated to construction and improvement of Florida highways, to traffic safety, public education and all that these imply in the future development of Florida resources and possibilities. Not published at State expense. Manuscripts and pictures intended for publication should be addressed to the editor. Contributions of pictures and reading material are welcomed, but publisher accepts no responsibility for their loss. Permission is hereby given to newspapers and other publications to reprint material contained herein (unless specifically restricted in the title of the material), provided proper credit is given to Florida Highways. Subscription price, \$2.00 per year; single copies 25 cents. Published monthly and entered as second class matter July 11, 1941, at the postoffice at Winter Garden, Florida, under the Act of March 3, 1879.

Notice of change of address should be given to Florida Highways, Winter Garden, Florida, two weeks in advance of the date of publication of the next issue.

Address all correspondence to Florida Highways—not to individuals

## State Officers

Spessard L. Holland, Governor.....Tallahassee  
R. A. Gray, Secretary of State.....Tallahassee  
Jas. M. Lee, Comptroller.....Tallahassee  
Nathan Mayo.....Tallahassee  
Commissioner of Agriculture  
Colin C. English.....Tallahassee  
Superintendent of Public Instruction  
J. Tom Watson.....Tallahassee  
Attorney General  
J. Edwin Larson.....Tallahassee  
State Treasurer

## American Road Builders Association

### FLORIDA SECTION

E. C. Langston, Chairman.....Orlando  
Jas. H. Craggs, Vice Chairman.....Ocala  
H. M. Birtley, Secretary.....Tallahassee

### EXECUTIVE COMMITTEE

L. B. McLeod, Chairman.....Orlando  
John E. Ballenger.....Lakeland  
S. B. Brinson.....Tampa  
J. L. Cone.....Tampa  
J. E. Dodson.....Miami  
W. H. Faulk.....Cocoa  
J. D. Manly.....Leesburg  
Carl G. Rose.....Ocala  
Chas. W. Smith.....Pensacola

## State Chamber of Commerce

W. C. Sherman, President.....Panama City  
Harold Colee.....Jacksonville  
Vice President and General Manager  
J. D. Ingraham, Treasurer.....Jacksonville  
Wm. L. Wilson.....Jacksonville  
Corporate Secretary

### VICE PRESIDENTS AT LARGE

Ed. R. Bentley.....Lakeland  
Bryan C. Hanks.....Miami  
N. P. Yowell.....Orlando

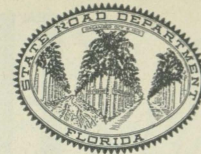
### DISTRICT VICE PRESIDENTS

Hunter Brown.....Pensacola  
M. M. Parrish.....Jacksonville  
J. H. Therrell.....Ocala  
Bayard S. Cook.....St. Petersburg  
T. F. Fleming.....Ft. Lauderdale

## Federal Works Agency

### PUBLIC ROADS ADMINISTRATION

Chas. D. Snead.....Montgomery, Ala.  
District Engineer  
R. B. Smith.....Tallahassee  
Highway Engineer  
Guy L. Smith.....Tallahassee  
Highway Engineer  
W. N. Ryerson.....Tallahassee  
Associate Engineer



## State Road Department

Thomas A. Johnson, Chairman.....Tallahassee  
Jack F. Townsend, Sr., Member.....Lake Wales  
James R. Stockton, Member.....Jacksonville  
O. G. Lindsey, Member.....Miami  
C. Fred Ward, Member.....Winter Park  
H. H. Baskin, Secretary.....Tallahassee  
R. J. Waterston, Jr., Auditor.....Tallahassee  
T. M. Shackelford, Attorney.....Tallahassee

## ENGINEERING DIVISION

J. H. Dowling, State Highway Engineer.....Tallahassee  
L. K. Cannon, Assistant Highway Engineer.....Tallahassee  
E. C. DeGarmo, Assistant Highway Engineer.....Tallahassee  
W. A. Kratzert, Maintenance.....Tallahassee  
E. S. Fraser, Bridges.....Tallahassee  
C. P. Datson, Plans and Surveys.....Tallahassee  
H. C. Weathers, Tests.....Gainesville  
W. M. Parker, Research and Records.....Tallahassee  
C. J. DeCamps, Right-of-Ways.....Tallahassee

## DIVISION ENGINEERS

### FIRST DIVISION

J. W. Allen.....Bartow  
S. P. Turnbull, Assistant.....Bartow

### SECOND DIVISION

John R. Slade.....Lake City  
Jas. A. Winfield, Assistant.....Lake City

### THIRD DIVISION

H. H. McCallum.....Chipley  
J. P. Herndon, Assistant.....Chipley

### FOURTH DIVISION

N. S. Emery.....Ft. Lauderdale  
J. M. Watson, Assistant.....Ft. Lauderdale

### FIFTH DIVISION

R. L. Hoskins.....DeLand



## Department of Public Safety

J. J. Gilliam, Director.....Tallahassee  
W. B. Lindsay, Executive Officer.....Tallahassee

## DISTRICT HEADQUARTERS

Lieutenant Reid Clifton.....Chipley  
Highway Patrol Office  
Lieutenant A. C. Yonally.....DeLand  
Highway Patrol Office  
Captain Fitzhugh Lee.....Lake City  
Highway Patrol Office  
Captain H. C. Martin.....Bartow  
Highway Patrol Office  
Captain Stuart A. Senneff.....Ft. Lauderdale  
Highway Patrol Office  
Lieutenant Tobe A. Bass.....Ft. Myers  
Highway Patrol Office





# FLORIDA FOURTH ESTATE

## Press Backs Holland

"So long as the provisions of gasoline rationing are not uniform throughout the country any State or area which feels that it is being unnecessarily penalized should have the right to appeal and to expect a considerate hearing."

This statement by The Miami Herald is outstanding among an almost universal complaint of the Florida press against the OPA order against pleasure driving of automobiles just at the time when such restrictions would cause the greatest loss of revenue to Florida. The order continued to be the chief topic of editorial columns throughout the State during the month.

Declaring the State's willingness to obey any obligation imposed by the necessities of war or the convenience of residents of cooler sections of the country, the Herald continues:

"At the same time the rationing formula under which the State now is operating extracts approximately \$4,000,000 from its economic structure, injures each county, threatens old-age pensions and schools, fore-shadows as added tax load upon the heavily burdened residents, and thus makes even more difficult the meeting of our Federal obligations. In the face of the showing the new rule should be relaxed, or the OPA should be prepared to prove that it is indisputably vital."

From the extreme opposite end of the State, where there is no horse or dog racing, and where there is little effort to attract tourists but where the loss of revenue from winter sports taxes will strike in the same proportion as in counties where racing is permitted, the Pensacola Journal says "There should be no let-up in voicing disapproval to Washington authorities and Pensacola's protest (by the Chamber of Commerce) should be joined by all other citizens and business interests this side of the Apalachicola." (This area was not rationed until recently.)

"Nothing in the way of obtaining relief from a situation which is not only unfair but palpably ridiculous can be accomplished unless howls continue to resound in the ears of Washington administrators."

Declaring that Governor Holland and Thomas A. Johnson, chairman of the State Road Department, are doing an excellent job of laying the facts before the Federal officials, the Journal says that Pensacola is "displaying no lack of patriotism in this protest" but merely asking for justice and fair consideration for that area and for the remainder of the State."

The voice of central Florida, coming thru the able pen of Warren Roberts of The Orlando Sentinel says: "While people are ready and willing to conform to all regulations necessary to winning the war, the

people of Florida, we think, follow the governor in believing that it was not necessary to include Florida in this elimination of A cards and other restrictions not imposed except along the Atlantic seaboard."

Pointing out that plenty of gasoline is coming in at Gulf ports, much of which is being sent to other States not affected by the order, the Sentinel continues:

"This makes it appear to be a clear case of discrimination against Florida without any basis in National necessity and certainly with an imposition of real hardship on the people of the State.

"We think this situation is a direct challenge not only to the governor, but also to Senator Pepper, Senator Andrews, and all of the Florida members of congress.

"We think the people of this State are fully justified in bringing all possible pressure to bear on their delegation in Washington to get a modification of this order to put us on the same basis as the other States that can bring in their gasoline without burdening the transportation of the Atlantic seaboard."

Taking note of the fight that is being waged by Governor Holland and Senator Pepper, the Tampa Times says:

"... These two representatives of Florida have not pulled their punches in voicing the same thoughts that virtually every citizen of the State now holds. Senator Pepper ... is entirely justified when he called the Federal handling of the barge program 'the worst botched-up job I've seen' and blamed the tragic inefficiency of government for the present Atlantic coast shortage. (Incidentally, the specifications for barges which were to be built in Florida called for Douglas fir, produced only in Washington, Oregon and other Pacific coast States.)

"... Senator Pepper and Governor Holland have both pointed a forceful finger of accusation at the crux of the whole confusing issue. It is not criticism of the need for rationing but it is, and will continue to be, criticism of incompetent control of the problem. Until intelligent anticipation of future conditions and aggressive action to prepare for them become the procedure and practice in Washington, the bureaucratic administrators of matters that touch the everyday existence of the public can expect to remain in hot water.

"Florida officials and the people of the State are not seeking to shunt off the obligation of supporting war needs but they will not willingly submit to the damaging effect of muddlers and muddling and tolerate impositions without at least making known what they think constitutes fair and reasonable treatment."

"Maybe we haven't squawked enough," say the St. Petersburg Independent. "We understand most of them (OPA orders) but this last one does not seem to be clear to

anybody, including the officials that promulgated it.

"... The explanation of the order is that it is necessary to save gas, but that, too, is not clear. Many A card drivers we know have been going downtown on street cars and buses, saving their small quota of gasoline for infrequent visits to friends or to go to beaches. If such is forbidden, they will simply drive to work more often and there will be no saving ...

"This order spotlights the question whether Florida should be included in the 'gasoline rationing area'. Governor Holland, a level-headed patriot and World War veteran, does not think so. Florida has a larger coastline on the Gulf than on the Atlantic, where the shortage lies; the State uses transportation facilities that are not affected by the seaboard shortage; and quantities of gasoline are actually shipped out of Florida, which gets only three-gallon units and no pleasure driving, into Tennessee, which has four-gallon units and no special pleasure driving restrictions."

Pointing out that Governor Holland is "maintaining his even, sensible course" despite his feeling that the restrictions are entirely unnecessary, the Tallahassee Democrat praises the governor's stand on assistance to the OPA in enforcing the pleasure driving restrictions. "Reasonable helpfulness to Federal agencies short of hamstringing the service for which the State patrol was organized is cooperation but not surrender," says the Democrat. "As Governor Holland pointed out, the State patrol would be turned into a drivers' service for Federal agents, if all requests were met. That would destroy a necessary State service and it would be entirely without justification."

\* \* \*

Bits of other editorial comment on the OPA ruling as carried in Florida newspapers this month follow:

"To me the whole thing is a feud between two groups of capitalists. If investigated thoroughly, I believe it will create a bigger scandal than the old Tea Pot Dome affair."—Bill Otto in Eustis Lake Region.

"Not only is the present order too vague, but it will arouse far more resentment—whether such resentment is warranted or not—than existing regulations."—Lake Wales News.

"This may come out in the wash. (Quoting the St. Petersburg Independent editorial.) We hope so. Meanwhile patriotic citizens should conform to the new order, irritating as it may seem. The fact is that putting up with the bureaucratic mistakes is one thing which civilians in every Nation have to do in every war. It may be the most exasperating thing about a war, but it is certainly a minor hardship compared to what millions of young Americans face."—Mulberry Press.



# EDITORIALS

## Tung Oil in Florida

THIS ISSUE OF Florida Highways presents an article by R. S. McKinney, chemist of the U. S. Tung Oil Laboratory, Gainesville, telling of the production of Florida tung oil, its uses and future prospects of the industry.

With China at war and importations of this essential product, which have amounted to 95 percent of the annual American consumption amounting to over 100 million pounds cut off, the cultivation of tung trees in this country becomes increasingly important and the opportunity for Florida landowners greater.

Although scientists have been driven to find substitutes for tung oil in some of its uses, there has never been found anything to equal the oil from this fruit, or nut, for many of its uses and there is no likelihood of overproduction for many years. Tung trees will not grow on just any soil and ground for their cultivation must be carefully selected. It is said that any ground that will grow successfully corn or cotton is good for tung trees but the person who is contemplating putting in tung trees should have the land analyzed by an expert. They are available from the U. S. Department of Agriculture and also from the Florida Department of Agriculture.

Development of the tung oil industry in Florida is closely connected with the development of the State's highway system, as much of the land which could be used for tung tree plantings is now isolated. There must be a way to market and a way from groves to presses.

An "ace in the hole" for the American tung oil industry is the fact that the oil produced in this country is superior to that produced in China. This means that there will always be a market for the American product even if importations are resumed and the Chinese product is offered for a lower price due to that country's lower standard of living and consequent lower cost of production. American methods of extracting and refining the oil from the tung fruit are so much superior to those practiced in China that the trade is willing to pay a better price for the domestic oil.

Florida is believed to be the best zone for the development of the tung oil industry in this country although groves have been established in other Southern States including Georgia, Alabama, Mississippi, Louisiana and Texas. This State has more land devoted to experimental plantings which have proven successful, although there have been failures when the soil was not sufficiently fertile and drainage was not proper. Landowners of the State would do well too look into tung oil. The Federal and State governments will assist them and there is no need for plunging into the industry until sufficient guarantee of success is apparent.

## 1943 Session and Taxes

Leaders of the 1943 session of legislature are disagreed regarding necessity for new sources of revenue

to replace those which have been wiped out or severely affected by war conditions. Some of them are confident that the State will be able to get by without new taxes while others declare that unless provision is made for taxing new sources there will be a serious let-down in some of the most important functions of the State government.

The most serious shortages are likely to appear in the revenue from the gasoline tax and the race-track tax which will bring shortages in the old age pension and school teacher funds, as well as in county funds throughout the State. Race-track revenue is an almost total loss this year and will be for the duration so long as gasoline rationing is made on a nonpleasure basis.

Florida Highways, in its next issue, will attempt to present the attitude of the Florida press in regard to the necessity for new taxation methods to be devised by the 1943 legislature. The same issue will present facts and figures regarding State government and statements from the leaders in both houses of the legislature. To date, the titular leaders of the senate and house, Senator Philip D. Beall and Speaker Richard H. Simpson, have not admitted that any new taxation will be necessary and both have issued statements in which they say that the strictest economy must be practiced. State departments have already cut expenses to the bone under suggestion of Governor Holland and State institutions are reducing costs, although some of them are finding it a difficult matter. Present indications are that if any new tax sources are tapped by the legislature, it will not be for expansion of any of the usual State functions but to provide needed funds for the continuance of assistance to those not able to help themselves.

## Food Rationing and Seminoles

War rationing of foods may force the American people to resources which kept the natives of this country from starvation. While such extreme measures are not likely unless the conflict lasts longer than most of the so-called experts of military strategy claim, a study of the methods of the Florida Seminoles in the production of food becomes interesting.

Before the white man taught him different, the Seminole believed maize (corn) to be chiefly used for food and he made many things from it for his table. The well-fed Semino's village, if there were any, had a garden in which corn, beans, yams, roots and other foods were raised, although the Indian paid little attention to his farm from the time of planting until harvest. He did, according to some historians, have the knowledge that a fish buried in a corn hill helped development of the grain.

The Seminole had, and has, a way to make meat go farther. He usually cooks meat with cornmeal and vegetables, making a stew which is open to all as long as it lasts. With today's demand that meat be made to go as far as possible, the stews, loafs and other stretchers will become popular.





Tung fruit on the ground, showing trunks of trees which are among the 1,208,764 tung trees which have been planted in Florida. The plantings in this State are distributed among 367 farms on 20,450 acres. Only 450,000 of Florida's tung trees are of bearing age but it is estimated that the crop this year will be over 10,000,000 pounds of fruit.

## Production of Florida Tung Oil . . .

ACCORDING TO THE United States census figures, the most rapidly developing branch of American horticulture is the tung oil industry.\* Tung trees now outnumber all other domestic nut-bearing trees, there being 13 million tung trees in the Gulf belt in comparison with 11 million pecan trees, formerly the most important nut crop.

For a number of years Florida was the only State producing tung oil commercially but about ten years ago Mississippi and Louisiana set out extensive tung groves and now Florida stands third in position in the Southern States in planting of tung trees. It is estimated that at the present time there are 1,208,764 tung trees planted in Florida on 20,450 acres, distributed among 367 farms. Although only 450,000 of the tung trees in Florida are of bearing age, it is esti-

By R. S. McKinney

Chemist, U. S. Tung Oil Laboratory  
Bureau of Agricultural Chemistry and  
Engineering, Agricultural Research  
Administration, U. S. Department of  
Agriculture, Gainesville

mated that this year they will bear a crop of over 10 million pounds of tung fruit.

This fruit will be processed at tung oil mills located in the South, yielding over a

million pounds of high grade tung oil which, at 46 cents per pound, (the government price) will return several hundred thousand dollars to the Florida tung producers. The largest tung plantings in Florida are located in Marion, Leon, Jefferson and Alachua Counties, but there are sizable tung acreages in Escambia, Okaloosa, Gadsden, and Madison Counties.

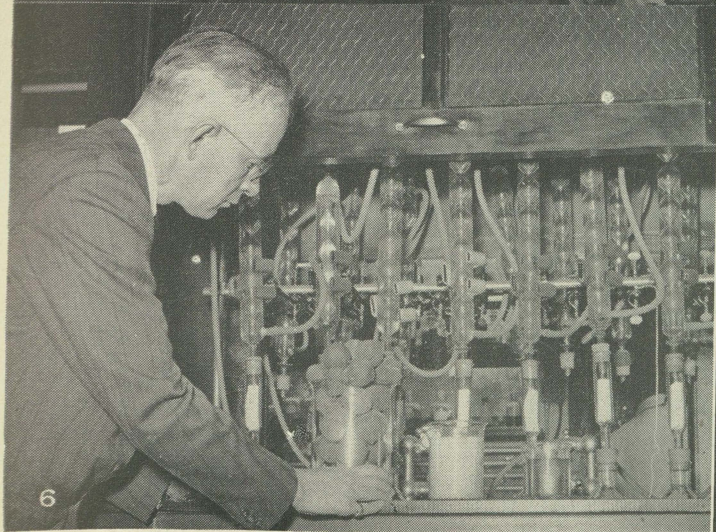
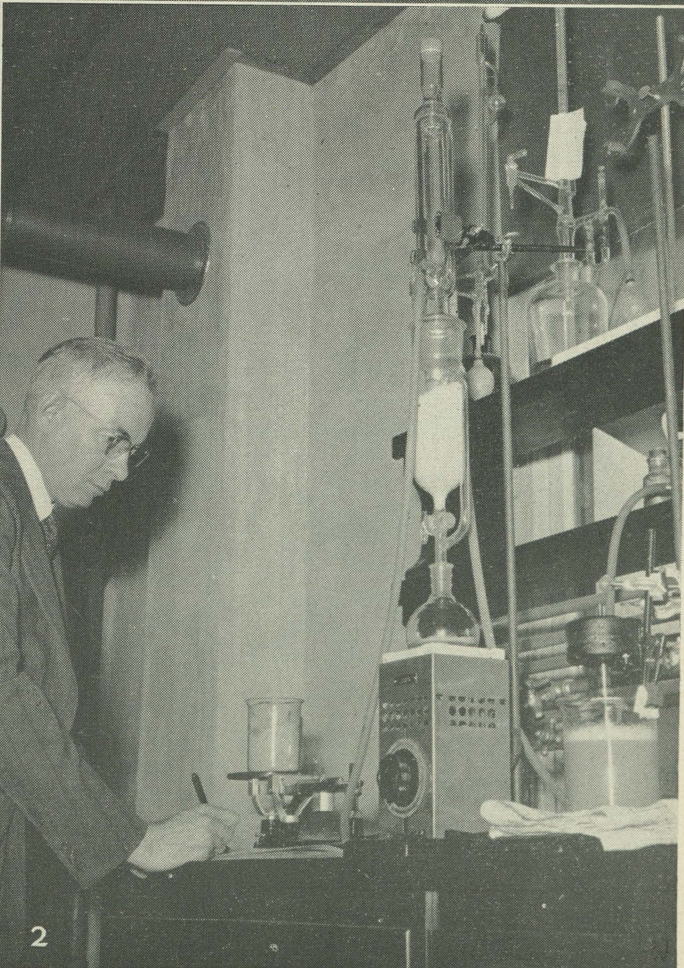
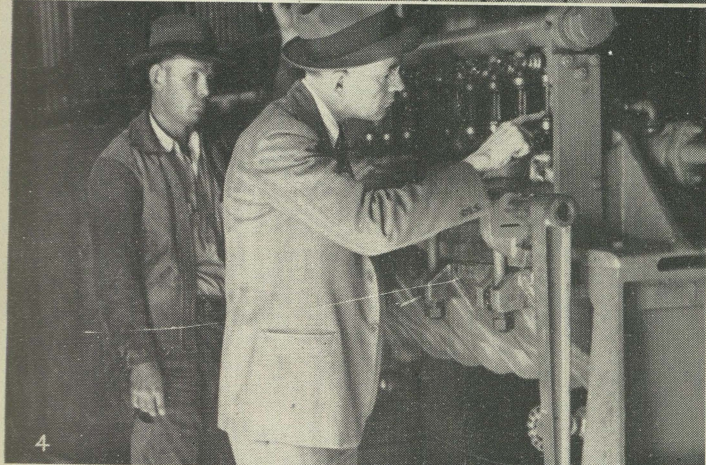
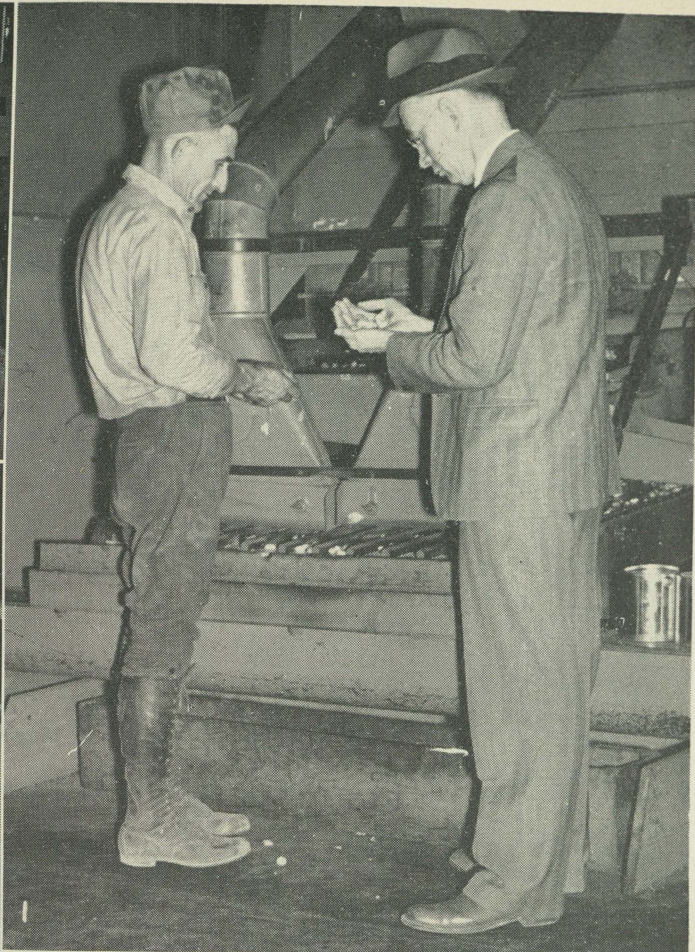
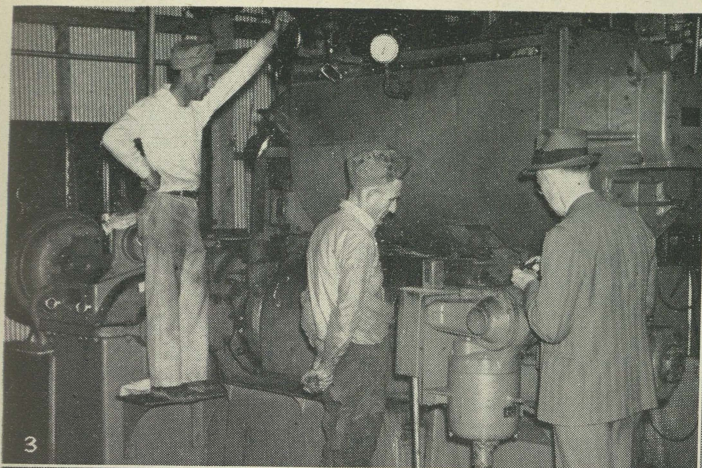
Although Florida has now been surpassed by two other Southern States in its plantings of tung trees and in its production of tung oil, yet our domestic tung oil industry started in Tallahassee where the first

On the opposite page are shown a number of steps in the processing of tung fruit. At the upper left is seen the hull separator; below, the laboratory equipment which extracts oil from tung fruit, leaving the residue for plastics.

On the right, at top, is shown the tung oil expeller at Brooker, showing tung meal dryer. Next below is the filter, then the apparatus which determines from its electrical resistance the moisture in tung fruit, and, at the lower right, extracting tung fruit for oil.

\*No. 3688 in outside publication series of Bureau of Agricultural Chemistry and Engineering.







tung trees were grown and the first commercial tung orchard was set out. From 1907 to 1923 there were numerous small experimental plantings of tung trees in northern and central Florida, which indicated that the climatic conditions and soils in this region were favorable to the growing of tung trees. Beginning in 1912 the Florida Agricultural Experiment Station at Gainesville has carried on studies on the effect of various cultural factors affecting tung trees, such as geographical location, type of tree, character of the soil, soil moisture, drainage, rainfall, kind and amount of fertilizer, method of cultivation, pruning, cover crops, diseases, and on the production of tung oil. This information is available to those interested.

The commercial acreage plantings of tung trees in Florida during the years of 1923-1932 were as follows:

1923	1924	1925	1926	1927
140	300	1020	2000	3000

1928	1929	1930	1931	1932
4000	5500	7750	11,500	14,500

By 1936 the acreage in Florida had increased to 17,525 and since that time it has increased slowly to the present figure of 20,450.

Domestic production of tung oil in Florida started on a commercial scale in 1929. During 1929-1932 most of the domestic production of tung oil in the South was in Florida. During these years the domestic production was as follows:

Year	1929	1930	1931	1932
Lbs.	12,000	20,000	25,000	130,000

Large plantings of commercial tung groves were made in Mississippi and Louisiana in 1928.

The production of tung oil in the South since 1934 was partly from Florida and partly from other Southern States in the Gulf Coast belt. No reliable statistics as to the proportion of the oil produced in Flor-

ida are available. The commercial production in the South in pounds by years was as follows:

1934	1935	1936	1937
500,000	300,000	2,000,000	500,000
1938	1939	1940	
3,000,000	750,000	5,000,000	

Since 1940 it has increased but volumes may not be published.

Tung oil has been produced and used in China for centuries but it has been only during the last 40 years that it has been used the last 40 years that it has been used in large quantities in America and Europe. Tung oil is the principal paint oil of the Chinese. They use it for waterproofing wood and other materials to protect them from the weather, to waterproof masonry, in oiling and calking junks, as an ingredient for dressing leather, in floor varnishes, and, when burned to a fine carbon, in making India ink.

In January 1942, a presidential order designated tung oil as a strategic defense material and prohibited its use except for approved defense purposes. Therefore, all the domestic and the remaining stock of imported China tung oil in this country is held and is being used by the government for the manufacture of war equipment in this country and England. Tung oil is needed for the surface protection of military structures and equipment, such as the painting of boats, bridges, etc. Its use is restricted to airplane manufacture, maritime purposes and military equipment.

Before the war more than 80 percent of the tung oil consumed in American industry was utilized by paint and varnish manufacturers. It is recognized as an essential and outstanding constituent of industrial fast-drying varnishes. Some high grade domestic paints contained appreciable quantities of tung oil. Films prepared from tung oil



The tung hull container. Tung hulls contain appreciable quantities of tannin, appreciable quantities of nitrogen and potash, suggesting their use as fertilizer. They are being investigated for other commercial uses.

and especially those from tung stand oil were found to be tougher and more water-resistant than linseed oil films. It was extensively used in tin-coating compositions, lithographic varnishes, insulating varnishes and airplane finishes. It was used in the formulation of paint driers to speed up the drying time of paint and varnish products. It was used in the formulation of certain synthetic resins which were noteworthy for their durability.

The linoleum industry was the second largest user of tung oil. Its use was outstanding in the preparation and finishing of linoleum, felt-base floor covering, oil cloth and artificial leather. It has been widely used for waterproofing various types of fabrics and paper, raincoats, bags, balloon outer covers, etc. It was also used for waterproofing paper shotgun shells and many other products requiring a waterproofed coating.

Considerable quantities of tung oil were used in the manufacture of certain insulating compounds for the electrical industry. Tung oil was an important ingredient in the manufacture of some types of automobile brake linings, and in some kinds of gaskets on steam pipes, pumps and engines, on the undercoating of most automobile finish jobs, in certain compounds used for the production of wallboard, and in waterproofing cement.

A prominent varnish technical expert stated "The use of tung oil in the manufacture of varnishes and other products in the varnish and paint industry completely revolutionized the processes used. The manufacturers of these products had been using imported fossil gums, together with treated linseed oil in the manufacture of the bet-

(Continued on page 18)

Below, loading a drying barn at LaCrosse, with tung fruit. These barns are built similar to corn cribs in the North, allowing for free circulation of air and at the same time providing shelter from rain.





# Food of The Florida Indians . . .

BEFORE THE colonization of Florida by the Spanish, the Indians knew little about agriculture and were forced to rely on their ability to hunt and fish for much of their food. As a rule, when game was scarce, the tribe suffered; when game was plentiful, the tribe feasted.

During Rene de Laudonniere's expedition in Florida in 1564, Le Moyne, commentator of the party, wrote that "the Indians traded such things as were used by them for the support of life. Such were grains of maize roasted or ground into flour. Some presented whole ears of maize and smoked lizards. Still others presented wild animals and various kinds of roots.

From all historical reports, maize, or corn, was the chief crop. The Indians prepared the soil with crude implements made of fishbone and wood, then planted the seed in holes drilled with sharpened sticks. After planting, the Indians retired to their homes in the forest and paid no attention to the crop until harvest.

When the grain was gathered, it was stored for the year's use in roomy, low granaries built of earth and stones, roofed thickly with palm branches. The storehouses were usually built into the side of a hill to protect the grain from the rays of the sun.

The Spaniards around St. Augustine in the 1600's complained that "much digging with the hands" was required in corn planting; that the yield was small and that it took four months and more for the corn to mature. In storage, the insects ate out the center of the grain leaving nothing but empty hulls.

Another source of food was the China briar or pseudo-smilax. From its roots a jelly-like bread was made which was called "conti." This was said to be very sweet and nourishing. Pumpkins, grapes, yams, various roots and the acorns of the live oak were valuable additions to the diet.

Since game and fish were abundant, agriculture remained undeveloped. To be a successful hunter required the combined abilities of an Olympian runner and swimmer, reckless disregard for life and limb and a large amount of cunning. Hunters ran down "large hens" (turkeys). Dressed in deer skins, horns and all they stalked the unwary deer and stabbed or shot them before the animals discovered the masquerade. Alligators were caught by ramming sharpened poles down their throats. Indian fishermen lassoed the manatee, or sea cow, and the porpoise, jabbed stakes into their air vents, and rode them until they were landed.

Once the game was killed, the hunters set about preserving the meat. Four forked stakes were set up and on these others were placed, forming a grill or grating. On this they laid their trophies and built a fire underneath for smoking the meat. The finished product was stored in buildings similar to the granaries. It is thought that the Indians also used salt as a preservative, both for game and fish, as it is known that they

## By WPA Writers Project

set receptacles of salt water in the sun to evaporate and then collected the mineral.

The fisherman used no less ingenuity than the hunters. They invented complicated fish traps woven from reeds, and constructed elaborate fishweirs. The coastal tribes lived almost entirely on fish. In 1568, Father Seleno commented that these tribes lived chiefly on fish and oysters, supplemented by roots and fruits, such as the prickly pear. The colorful Francisco Chicora, Indian guide to Peter Martyr, imaginatively described a tribe of Indians "with tails a meter long as thick as a man's arm, who ultimately died for lack of fish, their sole diet."

After food had been stored, the Indians held the Festival of the First Fruits, which Laudonniere called the "Toya." This was observed with solemn and peculiar ceremony, preceded by several days of fishing. The women cleared a large, circular space in which they erected supports for the cook pots. The pots were filled with a choice collection of venison, alligator tail, turtle steak, snake meat—all of which were considered delicacies. Aromatic herbs, for seasoning, were ground between two stones.

As the feasting time drew near groups of Indians in ceremonial dress, each group led by three conductors, left the house of the chief and advanced to the center of the cleared space, chanting and doing ceremonial dances.

When the feast finally began, the Indians, half famished by their fast, fell upon their meal with gusto. "devouring it like animals." Squaws and children were given what was left.

The meager diet of the Indians was augmented by the foods of the first Spanish explorers. As early as 1652, Father Cobo records in his *Historia de Nuevo Mundo*, "the extraordinary abundance in this new world of all the animals, fruits, vegetables and all manner of plants which the Spaniards have brought in since the discovery and colonization of the Floridas." The horses, cattle, hogs, sheep, goats, hares and even domestic dogs of America were all Spanish contributions. Wheat, sugar cane, oranges, lemons, olives, bananas, apples, pears, plums, peaches, limes and grapes were also introduced by the Spanish. "To her colonists and missionaries," wrote Candolle in 1813, "we owe 199 of the 247 plants cultivated in America."

Around the Spanish missions grew such luxuriant gardens that the Carolinians coveted the Golden Isles and Georgia-Florida coast, not for their beauty but for the great harvests and the cattle and hogs the friars had taught the Indians to produce.

Perhaps the greatest gift of the Spaniards to Florida was the orange that has contributed so much to the prosperity of the State. Even in 1740, Oglethorpe's tired soldiers before the gates of St. Augustine gave thanks

for the refreshing fruit, saying: "There our men found out the contrivance of putting orange-peel into their bottles, which tempered the water's heat and by its generous bitter imparted a noble warmth to the stomach."

The diet of the Seminole, though somewhat simple in its preparation, is more varied than that of his forefathers. His garden now has other vegetables in addition to the corn, beans and squashes that have always been a part of it. Although vegetables have become an important part of the diet, the Seminole cannot yet be called a vegetarian. Nor can he be called a farmer, for he still follows the traditions of his ancestors, using only a hoe and axe for cultivating implements. His crop receives little attention after planting; most of his time being taken up in the woods at hunting or fishing.

Vegetal foods, such as roots and buds from wild plants, still form part of his diet. One of the vegetal foods is called "ah-ah," which is the generic word for potato. This food consists of flour from the roots of the China briar or wild potato. The roots, after being carefully washed, are placed in a large bottle of water. On top of the roots is placed a thick layer of Spanish moss and on top of this, a strip of the inner fiber of the palmetto. This is done to keep the steam in the pot. After a few hours slow cooking, the roots are taken from the kettle, mashed to a pulp, strained in several waters and dried. During the drying process, the pulp is reduced to a brick-colored flour from which the squaws make thin cakes which they serve with honey. "Coontee" is a popular rye-colored flour made from the roots of a species of palmetto.

The vegetable garden usually contains corn, potatoes, beans, peas, squash and melons. Of these, corn and sweet potatoes are the most liked. Corn is used in many dishes and drinks. "Oafka," a popular drink and a part of every meal, is made by boiling corn with hickory ashes.

"Hum-bux-chay" (come eat) is the Seminole's call to neighbor and tribesman alike. He is hospitable at the "sofka" kettle. "Sofka," a stew made by cooking meat thickened with meal, grits or vegetables, is a standard dish and a large pot of it will almost always be found in some convenient spot near the center of the camp. A wooden ladle, called the sofka spoon, is left in the pot so that members of the camp may help themselves at any time of the day.

Although the Seminole owns a few hogs, and pork is frequently eaten, he depends for meat mainly on his prowess at hunting and fishing. Bear meat and venison are staples and can be found frequently in the same stew pot. When these become scarce, he will turn to curlew, whooping crane, duck or wild turkey.

Little variation is found in the daily menu. The breakfast is usually made up of the left-overs from the previous day's supper, plus a few hominy grits boiled to a thin gruel which is called "sofakkee." All of this

(Continued on page 18)



# Department "In The Army Now" . . .

ALL STATE ROAD Department projects not directly connected with the war effort will have to be held up until after the war, according to Chairman Thomas A. Johnson in the first of three budget meetings of the board held in Tallahassee last month.

This includes board-approved construction of highways in 36 counties, for which \$2,800,000 is available and earmarked, but on which work cannot be started because of the lack of manpower, materials and equipment. The next legislature may be asked to authorize investment of this money, probably in war bonds, so that it will be earning its keep while awaiting the defeat of Hitler and Hirohito.

"We're in the army now," said Chairman Johnson, explaining that the 1943 budget, already cut more than \$2,000,000 under the 1942 schedule, will provide largely for cooperative road building programs on routes of military importance which have been demanded and approved by the Army, Navy and Federal Bureau of Public Roads. For this program the Federal government will provide some \$12,600,000 of the \$31,600,000 budget. Maintenance costs will require \$5,900,000, construction projects already under way will take \$7,084,000, of which the Federal government will pay \$6,000,000, and State-financed projects, also under way, will take \$1,895,000. New Federal construction for the year will amount to \$6,919,000 of which the State will provide \$1,189,000.

The tentative budget of the department, which appears in this issue, is based upon balanced operations with no carryover of excess contracts at the end of the year.

It provides an estimated revenue from four cents of the gasoline tax of \$10,200,000. Last year three cents of the revenue brought in \$9,500,000 of the estimated income of \$11,500,000, the decrease being due to the gasoline rationing. According to the report of Comptroller J. M. Lee covering the calendar year of 1942 rationing and driving restrictions caused total taxable gasoline sales to drop 25.1 percent below 1941 consumption.

The comptroller's report showed that 318,900,414 gallons of motor fuel were sold during the year. This compares with 425,951,895 for the previous year. The seven-cent tax produced \$22,323,028 in 1942, a drop of \$7,493,602 under 1941, which may be put down as the amount rationing has cost the State in direct revenue.

That the pleasure-driving ban is costly to the State is shown by the report that December sales were 23,281,676 gallons compared to 38,523,215 gallons for December 1941, a drop of 39.5 percent. The movement started to force payment of the State tax by government consumers in the State, if approved by the courts, would make a material difference in the amount of receipts from the tax.

While the State Road Department struggled with its problems of wartime construction, maintenance of highways and decrease of revenue, the State Board of Administra-

tion, composed of Governor Holland, State Treasurer Ed Larson and Comptroller Lee, asked the supreme court to settle a disagreement of members over the method of handling gasoline tax funds under the constitutional amendment passed by the people at the last election.

Governor Holland and Treasurer Larson have contended that all gasoline tax funds credited to the counties should be kept in the treasury as Board of Administration funds and disbursed by the treasurer's check on the requisition of a majority of the board. The comptroller contends that all tax funds credited to the counties should be considered State funds and disbursed only by a comptroller's warrant countersigned by the governor. Whichever way the court decides, county benefits from the gasoline tax will not be affected.

The governor has contended that the procedure which he and Larson advocated would save time and money in consummating bond deals, since the treasurer's check is recognized by banks as cash whereas the comptroller's warrant is not and is taken only for collection and is subject to interest until it is cleared.

Gasoline tax funds long have been handled in the way proposed by the governor and treasurer under statutes which were in effect until the constitutional amendment was adopted.

Comptroller Lee's position was that all other State funds are disbursed by warrants signed by him and the governor and that "this money is no different than any other money in the State treasury."

The board, as a temporary policy to avert defaults pending the ruling of the court, adopted a resolution authorizing disbursement by the old system of enough money to meet February interest and principal accruals of county and district bonds, including all previous commitments of the board.

## LEGISLATORS RECEIVE TREASURER'S REPORT

Members of the 1943 legislature this month received from State Treasurer Ed Larson a report showing that the treasurer's office had handled \$94,000,000 during the past year finishing with a balance of \$18,259,924.

Receipts for the year amounted to \$94,491,895 and disbursements were \$91,218,776.

The year before, receipts were \$84,936,796 and disbursements were \$82,869,828.

The treasurer handles 263 different funds, and one of these, the general revenue fund, has 125 different classifications for receipts and 331 disbursement headings.

Starting the fiscal year July 1, 1941 with a balance of \$1,975,410, the general revenue fund closed with \$1,340,749. It had \$8,100,245 of ordinary receipts, with \$3,188,492 of transfers to it, with ordinary disbursements of \$10,721,334 and transfer disbursements of \$1,202,065.

Twelve other funds received more than

## WAR DEPARTMENT GIVES CONTRACT FOR FLORIDA JOBS

The War Department has announced award of the following contracts for construction in Florida:

\$50,000 to \$100,000.

Algernon Blair, Montgomery, Ala., temporary frame buildings in Okaloosa County. Under \$50,000:

Paul A. Miller Construction Company, Leesburg, target butt in Lake County.

Frank Rooney, Miami, housing and facilities in Dade County.

Leland J. Cobb, Tampa, excavating, drainage and paving in Hillsborough County. Joseph T. Miller Construction Company, Tampa, construction of lavatories and sidewalks in Clay and Alachua Counties.

Florida Nursery and Landscape Company, Leesburg, sprigging and seeding in Lee County.

J. S. Willson, Palm Beach, temporary frame buildings in Palm Beach County.

The War Department announced January 1 award of Florida contracts between \$100,000 to \$500,000:

Polk Construction Company, Lakeland, extensions to runways in Dade County.

Eric T. Clauson, St. Petersburg, construction buildings in Orange County.

Ten of 28 Army engineer contracts awarded in the Southeastern States during the December 15-17 period went to Florida firms, headquarters of the Fourth Service Command announced.

Georgia was second to Florida with seven contracts. North Carolina received five, Alabama three, Mississippi two and South Carolina one.

The work, covering a wide range of projects, is to be performed in 20 counties of the six States, as follows:

Florida — Pinellas, Hillsborough, Highlands, Bay, Volusia, Sarasota, Orange and Lee.

Georgia—Decatur, Richmond and Liberty. South Carolina — Florence, Lexington, Greenwood and Richland.

Alabama—Etowah.

North Carolina—Cumberland and Mecklenburg.

Mississippi—Lowndes and Harrison.

\$1,000,000, exclusive of transfers. They were estate tax escrow and expense fund \$1,893,092, general inspection fund \$1,439,096, State road distribution fund (gasoline tax for counties) \$11,700,125, State road license fund (gasoline tax) \$13,951,339, vocational education of defense workers \$1,419,594, county school fund \$11,902,494, unemployment compensation clearing account \$8,333,241, unemployment compensation benefit account \$6,351,960.

State welfare fund \$8,316,755, principal of State school fund \$1,602,938, State racing commission fund for counties \$2,202,501, State racing commission for old age assistance \$1,936,761.



# CAPITAL CHATTER . . .

FLORIDA CITIES and counties are co-operating splendidly in the campaign to save gasoline by coordinating services, according to J. J. Gilliam, director of the Florida Department of Public Safety and State mileage administrator. Some counties have saved as much as 65 percent, he said. Bradenton topped the list of cities with a saving of 65 percent on gasoline purchases. Lee County reported a saving of \$3,120 in gasoline purchases. Nassau County reported a 40 percent saving on total mileage of cars. Miami saved 55 percent on tires and 20 percent on gasoline.

\* \* \*

The 8-inch pipeline across Florida from Carrabelle to Jacksonville has been placed in operation and soon will supply 30,000 barrels of gasoline a day to the east coast. The line cost \$3,360,000 and is 199 miles long.

The northwest Florida section west of the Apalachicola River has been taken off the anti-pleasure driving restriction and "A" cards will get four gallons per coupon instead of three gallons. This area was recently included in the rationed area although it was not included in the original area.

\* \* \*

Secretary of State R. A. Gray has announced that Frank D. Upchurch, St. Augustine, has qualified as a Democratic candidate for State senator to succeed Jurant T. Shepherd, who resigned to become sheriff of St. Johns County. The election will be held March 4.

\* \* \*

In accordance with a recent ruling of Attorney General Tom Watson, the State Board of Beauty Culture Examiners has moved its offices from Tampa to Tallahassee.

\* \* \*

An experimental crop of Russian dandelions has been started at the Belle Glade station and may furnish a new source of raw rubber, according to announcement of Commissioner of Agriculture Nathan Mayo. The experiment is in charge of Roy A. Blair, assistant agronomist at the station.

\* \* \*

Governor Holland and State legislators representing Pinellas and Hillsborough Counties met with Army and Navy officers and Federal agency representatives here early this month in an effort to arrange removal of tolls on the Tampa Bay bridges. The discussions were confidential but Governor Holland stated that they were for the purpose of relieving the housing shortage in Tampa and that removal of tolls would greatly benefit Army and Navy conditions in that area.

\* \* \*

Contention of Governor Holland and State Treasurer Larson that a comptroller's warrant countersigned by the governor is not necessary for disbursements of gasoline

tax money by the Board of Administration has been upheld by the supreme court. Comptroller Lee, the other member of the board, had held that the comptroller's warrant was necessary.

\* \* \*

Edwin N. Belcher, Jr., Miami, has been appointed to the Miami Board of Pilotage Commissioners succeeding R. B. Gautier, Jr., who resigned.

\* \* \*

January collections of the State Beverage Department amounted to \$620,886, nearly \$40,000 more than for the same month last year. The total collection since July 1 amounts to \$4,637,107, or \$1,196,536 ahead of the same period last year.

\* \* \*

J. B. McKean, Lakeland, has been named to the district Board of Social Welfare succeeding Mrs. Martha Ballenger Doyle. J. G. Smith, Plant City, has been named to the board there succeeding Mrs. T. C. Maguire. Resignation of Harris Powers, Ocala, now in the Navy, has been accepted but no successor named.

\* \* \*

Cars which have not been entirely paid for may not be seized by the State beverage department because they are used in the illegal transport of liquor, according to a ruling of the supreme court. Credit companies retain title until the last payment is made, the ruling said, and the law fails to include "property of innocent third persons."

\* \* \*

Arthur G. Dozier, director of the white department of the Florida Industrial School for Boys, Marianna, and connected with the institution since 1934, has resigned to enter officers training school of the U. S. Army. His position has been filled by John E. Murano, according to announcement of Millard Davidson, superintendent of the school.

\* \* \*

The University of Florida, State College for Women and the Board of Control have worked out a plan whereby girls who have completed three years of study at the women's college may transfer to the University of Florida College of Law. They will receive diplomas from the FSCW after completion of the first year's work in law college and the law college diploma after completion of that course.

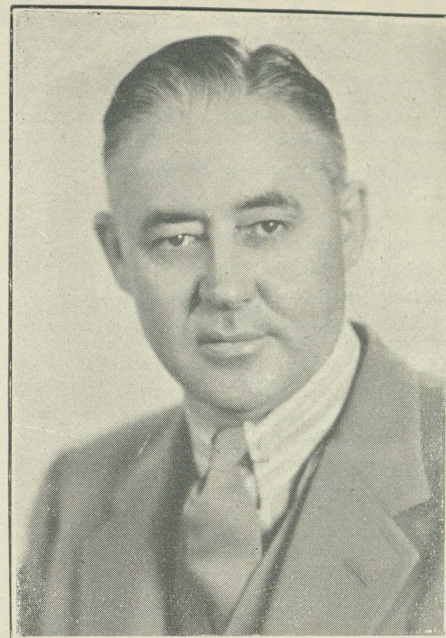
\* \* \*

Governor Holland has appointed Maximo Valdez acting commissioner in Monroe County to serve while William T. Doughtry, Jr., is in armed service. He also appointed Russell Thomas of New Port Richey as acting constable in Pasco County during the absence of Joseph L. Fraddosio, who is serving in the army.

\* \* \*

Mrs. Spessard L. Holland, wife of the governor, has announced WAAC recruiting as her 1943 project. She made her first appear-

## RESIGNS



W. D. LEVEILLE

Terminating service of more than 15 years with the State Road Department, during which time he held positions of instrumentman, project engineer, location engineer, inspector and division engineer, W. D. LeVeille, division engineer of the fifth division, tendered his resignation to the department on February 15.

Mr. LeVeille was appointed head of his division, which embraces Brevard, Citrus, Flagler, Lake, Marion, Orange, Osceola, Putnam, Seminole, Sumter, St. Johns and Volusia Counties, at the beginning of the present administration.

He was educated in civil engineering at the University of Wisconsin and came to Florida in January 1924 when he was employed by the State Road Department. After a year and a half he resigned to become county engineer for Madison County and city engineer for the city of Madison, the latter position which he held until 1929, when he returned to the department.

Some of the projects constructed when Mr. LeVeille was acting as project engineer include a two-lane concrete highway through Pasco County on Highway No. 5, Duval street through Lake City on Highway No. 1, Highway No. 23 in Pasco County from Zephyrhills to Dade City, and Highway No. 17 in Polk County from Haines City to Loughman.

Mr. LeVeille will be succeeded by R. L. Hoskins, who has been continuously employed by the department since 1930. He is a former division engineer of the fourth division and, until his present appointment, project engineer of the east end of the Daytona Beach-DeLand project now under construction on Highway 21.

Mr. LeVeille will associate himself with the Pasco Supply, Inc., distributors of all types of bituminous materials.

ance in the campaign on a WAAC entertainment in Daytona Beach.

(Continued on page 17)



# With County Commissioners

"HE WHO LAUGHS last laughs best" probably is what D. Graham Copeland and his Collier County board of commissioners are saying now that horse racing has been halted by gasoline restrictions and counties are not getting the \$30,000 a year of pari-mutuel revenues.

Last November, when most counties were entering this amount in their anticipated receipts for the year as they made up their budgets, the Collier commission did not take the gamble. It figured that races would not be run this Winter, increased 1942 taxes by 50 percent and said "if they run, we'll save the receipts for 1943 and refund it to the taxpayers in lower taxes."

Everyone knows what happened.

Dr. H. A. Johnson has been appointed Putnam County physician.

Liberty County has designated the Bristol Free Press as official county newspaper.

City of Homestead has purchased a grader and roller from the Dade County commission for \$400.

Sarasota board has raised the pay of 12 employes \$10 a month to help them meet the increased cost of living.

Levy County board has leased its dock at Cedar Keys to the U. S. government for a rental of \$2,100 for the first year.

Commissioner K. K. Knight (Flagler) has been appointed county purchasing agent and all purchases will be made through him.

County Judge Cornelius (Hillsborough) turned in \$20,417 in excess fees for 1942, nearly \$7,000 more than for the year before.

E. W. Simmons, Jr., son of County Commissioner Simmons, has been named Hillsborough County patrolman to fill a vacancy.

Homestead's bay park, giving access to the beach, has been turned over to the U. S. government for \$1 a year by the Dade commission.

Clewiston voters are considering a plan to redistrict the county so that Clewiston will have better representation on the county commission.

Hardee County's official newspaper for the year will be the Bowling Green Exponent. The delinquent list will be run in the Hardee County Herald.

Laurens G. Jones, special delinquent tax attorney for the Hillsborough commission, blames the city of Tampa for holding up collection of taxes on 2,500 pieces of real estate by "dilly-dallying" with 250 foreclosures.

E. P. Clark, Ocala city manager, has been recommended by the Marion County commission as administrator of the mileage conservation program.

Pasco County board has designated the Zephyrhills News as official newspaper, under its plan of rotating printing among all county newspapers.

Marion County is in the best financial condition in the past ten years, according to a statement by Chairman R. Bruce Meffert at a recent meeting of the board.

County Attorney Evans Crary (Martin) reports progress in securing deeds for land for enlarging Stuart airport. Twenty additional acres have been purchased.

Sheriff Rex Sweat (Duval) presented checks for \$13,958.19 representing excess fees to the board. His receipts were \$107,770.18 and expenses \$95,125.07.

Blountstown County Record has been designated official newspaper of Calhoun County and Marion B. Knight has been named county prosecuting attorney.

Pinellas County commissioners have started a movement, now joined by the city of St. Petersburg which would set up a county postwar economic planning council.

Florida Association of County Commissioners will meet but one day in its annual convention in Tampa February 25 instead of three days as originally planned.

Earl M. Rader, for 15 years an employe of the city of Miami, has been appointed Dade County engineer to succeed Edmund Friedman, now in military service.

Dade County fee officers showed a decrease of \$77,717.28 in excess fees collected for 1942. The total was \$173,032.71 compared to \$250,749.99 for 1941.

Miss Ann Bronaugh has been reappointed superintendent of the Childrens' Home by Palm Beach County commissioners on recommendation of Judge Richard P. Robbins.

Dade County's hospital will remain on a charity basis, under decision of Commissioner Paxson, in charge, recently when he denied admission of patients on a part-pay basis.

Palm Beach County commissioners have instructed County Attorney Henry C. Lienthal to seek more stringent enforcement of the vagrancy laws in order to provide more labor in the Everglades farming region. A negro and his wife have been known to make \$35 a day picking beans, but they will only work a day or two a week, farmers say.

A. Fortenberry, Merritt Island, is entering on his fifth year as chairman of the Brevard County Board. Col. N. B. Butt, Cocoa, has been named attorney for the board.

Escambia County board has contracted to take over the Pensacola Legion Home for use as an armory for the Home Guards. The Legion has reserved the right to repurchase in 10 years.

Pinellas County commission and the county school board are paying transportation costs of seven St. Petersburg women to defense classes at Dunedin. They are learning pattern making in a foundry.

Alfred Young, Lake Como, has been appointed by Governor Holland as commissioner for District No. 1, Putnam County, to succeed L. P. DeWolf who was elected in November but did not qualify.

Commissioner C. Y. Byrd, Palm Beach, declares that after the war will see huge vegetable shipments being made from the Lantana airport, made possible through cooperation with Federal authorities.

Nassau County commissioners made their first formal visit to the new county hospital last month, being conducted through the institution by E. R. Hood and V. C. Stillwell of the board of hospital trustees.

Columbia County's health unit began operations on December 14 with Dr. E. F. Brown in charge. The county board, State Board of Health and U. S. Public Health Service are cooperating in its operation.

Pinellas commissioners have petitioned the State auditing department for permission to permit magistrates to streamline their reports and charge a flat fee of \$4 per case. Magistrates are in agreement with the proposal.

Hardee County commissioners have changed the system of dividing county road funds so that districts paying less taxes will get more needed money for their roads. Previously money had gone to the two larger districts.

More than 28,500 cans of food have been produced in the four home demonstration kitchens of Volusia County, according to report to the commission by Gladys Kendall, home demonstration agent. Some 12,800 cans were sold to the county for use in welfare work at 10 cents a can.

Frank H. Owen, Eustis, has been reelected chairman of the Lake commission. He has served for the past four years. Harry K. Stokes is vice chairman and J. W. Hunter, attorney. Zera D. Giles was reappointed prosecuting attorney and given another leave of absence to serve with the armed forces.



Commissioner H. L. Hilton, Okaloosa County, who retired first of the year, attended 143 consecutive meetings of the board. He had been a member of the board for 12 years and did not miss a meeting.

\*\*\*

Dade County commissioners have agreed on a plan to ask the legislature for local laws which will permit the county to collect garbage in thickly settled communities outside municipal limits and to clean out canals.

\*\*\*

Elmer H. Blank, Volusia County commissioner, believes that WPA will be reestablished after the war and is planning new projects for that period. "When the war is over, work will be needed by thousands," he says.

\*\*\*

Lee County board has approved expenditure of \$447 for six units of radio transmitter-receivers to be used by the defense council in the county-wide warning service. Some of the radios are to be spotted on islands.

\*\*\*

Maximo Valdez's bond as commissioner in Monroe County has been approved by the commission. He was appointed to fill the vacancy caused by the absence of Lieut William T. Doughtry who is serving in the armed forces.

\*\*\*

Joseph Atkinson Yates, Jr., former Coral Gables city commissioner, who lost his sight six years ago, has been granted a tobacco and candy stand in the Dade County court house where he is seen daily along with his seeing-eye dog, Pedro.

\*\*\*

Palm Beach commissioners recently approved payment of a total of \$3,350 for civilian defense, the money being spent thru the county defense council, \$2,000 of it for first aid equipment which had been borrowed from the Red Cross.

\*\*\*

If Jim Foley completes his present term as chairman of the Polk County commission, he will have served in that capacity for 20 years. Chairman Fred W. Ball of the Hillsborough commission has served in that capacity for 11 years.

\*\*\*

Chairman Joe F. Hammond (Duval) is serving for an "economy letter" which has been sent to all fee officers and department heads of the county urging them to conserve funds and to purchase nothing that they can get along without.

\*\*\*

Marion County commissioners have refused to pay a bill for court reporter serv-

ices at a preliminary hearing at the request of defense counsel on advice by County Attorney Wallace Sturgis that the board was not responsible for such expense.

### L. E. Hakes Co.

Auto Parts - Batteries

1470 San Marco Blvd.  
So. Jacksonville, Florida

### J. H. CHURCHWELL CO.

Manufacturers and Distributors of  
CLOTHING AND SHOES

JACKSONVILLE, FLORIDA

Transits, Levels, Theodolites

### I. E. RODGERS

Guaranteed Service  
35 Years Experience  
Repairs and Adjustment  
404 Masonic Temple Bldg.  
Phone 5-1745 Jacksonville, Fla.

### NATIONAL OFFENSE

Maintenance of Rolling and Working  
Equipment . . . Machine Shop operations  
all go hand in hand . . . We are  
proud of our machine shop and our  
complete parts stock.  
MOTOR PARTS AND SUPPLY, INC.  
Jacksonville, Florida

### SEABROOK HARDWARE CO.

(Not Incorporated)

Trucks, Tractors, Road Machinery  
TALLAHASSEE, FLORIDA

### MIDYETTE-MOOR

INSURANCE AGENCY

"Ask Those We Serve"  
Midyette-Moor Building  
Tallahassee Florida

## Crenshaw Bros. Produce Company

Tampa

Florida

### Hillsborough Packing Company

Incorporated

FLORIDA CITRUS FRUITS

Tampa,

Florida

### JARS

Of every description for  
Honey, Marmalades, Preserves  
Syrup and Sanitary Cans

### LOUIS WOHL & SONS

16th St. & 6th Ave. Tampa, Fla.

### I. W. PHILLIPS & CO.

Wholesale Distributors

HARDWARE AND BUILDING  
MATERIALS

Tampa,

Florida

### Brengle & Son

Building Movers

Contractors for Handling Heavy  
Machinery, Smokestacks, Etc.

Orders from any part of the State  
given prompt attention

Office 1417 Fourth Avenue

Phone Y 1541

TAMPA,

FLORIDA

### C. J. BOYNTON

Service 2282 Office 730

CITIES SERVICE PRODUCTS

Batteries, Auto Parts, Accessories  
Authorized Dealer Dodge & Plymouth  
Parts

Cor. N. Monroe and 6th Ave.  
TALLAHASSEE FLORIDA

## SAN CARLOS HOTEL

L. C. Hagler, Manager

PENSACOLA

FLORIDA

J. D. Wilbanks, President and General Mgr. - W. Henry Thomas, Sales Mgr.  
A. W. Kelly, Plant Superintendent - W. M. Cobb, Yard Foreman

## TAMPA LUMBER AND CREOSOTING CO.

PRESSURE TREATED POLES, PILING AND BRIDGE TIMBERS

We carry large stock of piling in all sizes on hand at all times.

HOME OWNED AND OPERATED

P. O. Box 5117

TAMPA, FLA.

Telephone Y-1388

THE ROAD THAT LEADS TO BETTER  
ENGRAVINGS  
**RESPESS ENGRAVING CO.**  
QUALITY SERVICE  
LINE COLOR HALFTONE  
JACKSONVILLE, FLORIDA

## M. O. HUCK PAINT COMPANY, Inc.

ENGINEERING - STRUCTURAL & SPECIFICATION PAINTS  
Spray Painting - Heavy Duty Steam Cleaning Equipment

JACKSONVILLE

FLORIDA



David Bailey, assistant county agent for Pasco County, has been named county agent for Marion County, succeeding Marshall O. Watkins who has entered the Navy. Bailey is a graduate of the University of Florida and was recommended by the extension service.

\* \* \*

Many county commissions have officially noted stoppage of the stamp plan for purchase by indigents with statements that hardships are going to be worked unless some substitute is arranged. Pinellas, Hillsborough, Duval and Dade Counties are particularly alarmed over the situation.

\* \* \*

St. Lucie County has collected more than \$22,000 in delinquent taxes since the first page ad of properties was published a few weeks ago. Much of this amount was paid on delinquent property not in the advertisement and commissioners plan to continue the advertisements.

\* \* \*

Dr. H. J. Buehler, Palm Beach County veterinarian and County Agent M. U. Mounts have been instructed by the commission to attempt to arrange resumption of tests of cattle for Bang's disease by the Bureau of Animal Husbandry. Federal service has been discontinued since last August.

\* \* \*

Hillsborough County commissioners have endorsed a stand taken by the Pinellas commission asking that Davis causeway and Gandy bridge be changed into toll-free spans. They will ask the State Road Department to handle negotiations for purchase of the spans.

\* \* \*

Hillsborough County commissioners were commended for their campaign to collect delinquent taxes in a recent editorial in the Tampa Tribune. "We urge the commissioners to back the drive to the limit," said the newspaper. "This is the county's golden opportunity."

\* \* \*

Failure to receive race track tax funds is held responsible by the Orange County board for a drastic cut in the budget for the Orange County Chamber of Commerce. "Things are different now," said Chairman Cook, "and we'll have to do a lot of things we haven't done in the past."

\* \* \*

Pinellas County commissioners have adopted a resolution asking the State's Washington delegation to urge some substitute for WPA. The action was suggested by Dr. R. D. Hollowell, director of the county health department, who declared that there

WHEN IN APALACHICOLA, FLA.,

DINE AT

**AVERY INN**

The South's Best Seafood Dinners

You Will Enjoy It.

## SHERRILL OIL COMPANY

PENSACOLA

Distributors of Pure Oil Company's Products

FLORIDA

## TAMPA STOCK FARMS DAIRY

VAN EEPOEL DAIRY PRODUCTS, INC.

Tampa

Since 1898

Florida

R. C. Balfour, Jr.

## GEORGIA CRATE & BASKET COMPANY

Manufacturers of FRUIT AND VEGETABLE PACKAGES  
THOMASVILLE, GEORGIA

## COMPLIMENTS TO

State Road Department and Florida

Highway Patrol

A FRIEND IN PALATKA

## ST. JOE LUMBER & EXPORT CO.

Port St. Joe, Florida

Manufacturers and Exporters of

LONGLEAF YELLOW PINE AND TIDEWATER RED CYPRESS

## MEXICAN PETROLEUM CORPORATION

ASPHALT FOR ALL TYPES OF PAVING

NEW YORK, N. Y.  
122 E. 42 St.

R. L. BANNERMAN  
113 E. Park Ave.  
Tallahassee, Florida

## B and W MUSIC COMPANY

Operators of Legal Coin Machines

Harry Wrighton, Owner

MARIANNA

FLORIDA

## A. R. COGSWELL

"SINCE 1921"

Blue Prints - Photostat Prints - Engineering Supplies  
223 HOGAN STREET JACKSONVILLE, FLORIDA



is dire need for Federal assistance to indigents.

\* \* \*

The Florida Association of County Commissioners will meet in Tampa February 24-26, when they will hear Governor Spessard L. Holland and Chairman Thomas A. Johnson, chairman of the State road board, speak.

\* \* \*

Joe F. Hammond, veteran member of the Duval County commission, has been re-elected chairman for his fifth consecutive six-month term. Other commissioners beginning new terms are Tom Marshall, first district; Ray Green, second district; Robert D. Gordon, fourth district; W. Howard Belote, fifth district. Hammond has been commissioner of the third district for nearly 15 years. County Attorney J. Henry Blount was reappointed.

\* \* \*

Collier County leads the way in other respects. No land in the county has reverted to the State for nonpayment of taxes. Since the formation of the county in 1923 the tax collection has been 99.99 percent. The county has avoided Federal aid, preferring to do its work at its own expense and in its own way, and all of its public buildings and works are adequate and attractive. It has about 152 miles of paved highway (80 percent constructed by the county), 50 miles of county roads, well-equipped school buildings, a modern courthouse and jail.

In 1923 the assessed valuation of Collier County was \$1,653,360, outstanding indebtedness \$347,357.45 and the tax levy \$125,296.43.

In 1929 the assessed valuation was \$3,614,406, outstanding indebtedness \$1,577,826.93 and total tax levy \$405,225.99.

In 1940 the assessed valuation was \$1,886,170, outstanding indebtedness \$539,515.15 and the total tax levy \$58,845.15.

In 1941 the assessed valuation was \$9,635,113, outstanding indebtedness \$389,899.40 and total tax levy \$69,315.47.

## CAPITAL CHATTER

(Continued from page 13)

Conrad Van Hyning, former commissioner of social welfare in Florida, has been named territorial director for the Federal security agencies in the Caribbean.

\* \* \*

Treasurer J. Edwin Larson was a recent speaker before the Central Florida Association of Life Underwriters in Orlando. "Business needs every possible kind of protection," Larson told the association. "Property is worth more. Every automobile, regardless of its age, is more valuable than ever."

\* \* \*

L. C. Bruce, Bartow, was reelected chairman and I. N. Kennedy, Tallahassee, director, at the reorganization meeting of the Florida Game and Fresh Water Fish Commission in Tallahassee last month. It now operates as a constitutional authority. The board, recently reappointed by Governor Holland includes Lester Varn, Jacksonville, L. G. Morris, Monticello, J. W. Corbett, Fort Pierce, and John C. Clardy, Ocala.

\* \* \*

W. H. Toole, Tampa, has been appointed

acting harbor master of the Port of Tampa, to succeed Barrett Stephenson, who has been granted leave of absence for military service.

\* \* \*

Some of Tallahassee's housing shortage may be relieved by the plan to move two former CCC camps to the capital for use as barracks for soldiers on weekend leave. The appeal of military authorities that nonproductive families living in the capital move elsewhere met with little response.

\* \* \*

M. C. Peters, Lake Alfred, has been appointed by the governor to the Grapefruit Cannery Advisory Board to succeed Paul Stanton, deceased.

\* \* \*

The school teachers' salary fund was put on a current basis the last of last month with distribution of \$1,400,000 to the counties. The money came from sales of 1943 automobile licenses.

\* \* \*

Richard Griffen Key, St. Petersburg, has

### Mills Rock Co.

of Miami, Inc. Florida  
Miami, ALACHUA ROCK QUARRIES  
Williston, Florida

### Paul Smith Construction Company

"Builders Over the Southeast"

Tampa

Miami

Washington

San Juan

### GREGG MAXCY, INC.

CITRUS FRUITS and CANNED CITRUS JUICES

PACKING PLANT—LAKEMONT

SEBRING

FLORIDA

### POLK PACKING ASSOCIATION

GROWERS - SHIPPERS - CANNERS

ORANGES - GRAPEFRUIT - TANGERINES

WINTER HAVEN,

FLORIDA

24-Hour Service

Complete WRECKER Service

Day and Night

### DUEY-MITCHELL MOTOR COMPANY

DODGE AND PLYMOUTH SALES AND SERVICE

Overhauling and Complete Repairs on All Makes Cars and Trucks

Day Phone 2197 — Night Phones 28-884 or 39-345

302 W. LEMON ST.

LAKELAND, FLORIDA

## The New Florida Hotel

Fireproof



Lakeland's Largest and Finest Hotel

A. Baumberger, Mgr.

John E. Ballenger and Associates, Owners

175 Rooms

LAKELAND, FLORIDA

175 Baths



according to announcement of Mrs. Spessard L. Holland, State chairman, making a preliminary report. The sales are expected to run \$142,000 when all reports are in, an increase of 29 percent over the previous year.

Mrs. Holland gave credit for the great showing to "the work of the thousands of volunteers working with tuberculosis associations throughout the State."

\* \* \*

Dr. Edward W. Berger, entomologist with the State Plant Board, has announced retirement after 37 years of service in agricultural and horticultural activities in the State. He is a past president of the Florida Entomological Society and is generally credited with a great part in the eradication of the citrus canker from Florida groves.

## FOOD OF FLORIDA INDIAN

(Continued from page 11)

is placed on the dining platform where it is left throughout the day.

At noon, what remains is heated and more is cooked if needed. This is the routine of the daily meals. On festive occasions, the meal is surrounded by much ceremony and special foods are prepared according to the nature of the event.

Fruits most commonly used are sour oranges, limes, bananas, blueberries, wild plums and guavas. There is a noticeable absence of salt in all the food, and little milk, butter or sugar is consumed.

The Seminole Indian of today has adopted many of the white man's foods, but still finds many sources of food in his familiar environment.

## PRODUCTION OF TUNG OIL

(Continued from page 10)

ter grades of varnish. It was found that tung oil, together with American resin, produced varnishes which were equal in all respects and superior in many respects, to the old types of varnishes. Since tung oil became available, development in this industry has been along the line of using this oil in combination with resin esters or synthetic resins, thereby replacing the foreign fossil gums formerly used."

The scarcity and high price of tung oil has forced the consumers to seek substitutes. The two most noteworthy substitutes are dehydrated castor oil and oiticica oil. However, there is no substitute which is equal to tung oil for many purposes and it is believed that if the price becomes normal (10-15 cents per pound) and the supply of tung oil becomes sufficient, many consumers will buy tung oil in preference to the substitutes, even if they can be purchased at a lower price.

It should also be noted that the tung industry is one in which there is no likelihood of an over-production for many years. Formerly, at least 95 percent of this country's annual consumption of 100 million pounds of tung oil came from China. The effect of the Sino-Japanese war on the Chinese tung industry is not known but it is acknowledged that American tung oil is lighter in color than that produced in China and has brought a premium over the Chinese product in some instances.

Several developments of the United States tung oil laboratory point the way to better

profits for our domestic tung oil industry. Although the tung oil mills are efficiently operated, there is an appreciable quantity

of residual oil left in the press cake. Laboratory and pilot plant studies have indicated the possibility of obtaining better oil

## Alton Moore Motors,

Inc.

Sales

Bartow,



Phone 250

Service

Florida

## Moore's Truck & Tractor Co., Inc

Hauling Contractors

Bartow,

Florida

Phone 250

## Di Giorgio Fruit Corporation

FORMERLY

## INTERNATIONAL FRUIT CORPORATION

PETERS, FLORIDA

## HEARTY GREETINGS AND GOOD WISHES

To All Members and Officers of the

## FLORIDA STATE HIGHWAY PATROL

We congratulate you on the splendid opportunities that are yours to make highway travel safe thru friendly, courteous law enforcement.

## WAVERLY GROWERS COOPERATIVE

WAVERLY, FLORIDA

Between Cypress Gardens and Bok Tower

VISITORS ARE ALWAYS WELCOME

## PASCO PACKING ASSOCIATION

Packers, Canners and Shippers

Oranges . . . Grapefruit . . . Tangerines

DADE CITY,

FLORIDA,

U. S. A.

J. M. KUDER, PRESIDENT

DAVID GIDDINGS, GENERAL MANAGER

## KUDER CITRUS PULP COMPANY

LAKE ALFRED, FLORIDA

KUDER BRANDS CITRUS PULP

IS

Palatable - Nutritious - Bulky. Body Building and Milk Producing



recovery by either solvent extracting of the press cake for its residual oil or by the commercial solvent extraction of the tung kernels without first subjecting them to the pressing process.

Further studies have indicated the possibility of developing more profitable utilization of the tung-oil byproducts. It has been found that tung hulls contain appreciable quantities of tannin, which might be of commercial value; and that they contain appreciable quantities of nitrogen and potash suggesting their use for fertilizer purposes and as a sources of humus. Tung shells are being investigated as a source of activated carbon by a commercial concern.

Solvent extracted tung press cake is non-toxic to young growing chicks but appears to be unpalatable. A promising plastic can be prepared from solvent extracted tung kernels. The use of this residue for the preparation of adhesives is being studied. The more efficient recovery of the oil from the tung fruit and the better utilization of the tung oil byproducts should give the American tung producers better returns from their crops of tung fruit and should put them in a better position to compete with tung oil substitutes.

#### MINUTES OF STATE ROAD DEPT.

(Continued from page 3)

Chairman and the Secretary of the Department are hereby authorized to execute for the Department the usual right of way contract with the County.

#### BROWARD COUNTY—ROAD 341—PROJECT 4533—RIGHT OF WAY

On motion of Mr. Lindsey, seconded by Mr. Ward, the following resolution was adopted:

WHEREAS, pursuant to due authorization, the State Highway Engineer has had a section of State Road No. 341 in Broward County located and surveyed and has designated the same as Project 4533 and has prepared a right of way map of said project;

NOW THEREFORE BE IT RESOLVED by the State Road Department that it hereby approves the location and survey of said project and directs that a copy of said right of way map of such location and survey certified to by the Secretary and the Chairman of the Department, be filed in the office of the Clerk of the Circuit Court of said County;

BE IT FURTHER RESOLVED that it is the judgment of the Department that the construction of said project is necessary, practical and to the best interest of the State, and that it is necessary that the right of way for the roadbed, ditches, and borrow pits for said project be acquired;

BE IT FURTHER RESOLVED by the Department that said County be, and it is hereby requested and authorized, in its name, by its Commissioners, to secure by gift, purchase or condemnation, the lands necessary for the right of way for the roadbed for said project as shown on said map or plat, together with any and all easements for drainage ditches and borrow pits that may hereafter be found and determined necessary in the construction and maintenance of said project, and to convey the same to this Department, with proper abstract of title.

#### AGREEMENT REGARDING LEASE OF BRIDGE OF LIONS

On motion of Mr. Ward, seconded by Mr. Townsend, the following resolution was adopted:

BE IT RESOLVED, that the agreement with the City of St. Augustine covering the lease of the Bridge of Lions for the period between September 1, 1942 and September 1, 1943, shall be amended to omit the provision requiring all rental

money paid by the Department under this lease to be applied to the payment of the City's bond obligations.

BE IT FURTHER RESOLVED, that in lieu of the provision above referred to the City shall exhibit to the Department satisfactory evidence of these payments being made from another fund.

BE IT FURTHER RESOLVED that when this lease shall be renewed for the year beginning September 1, 1943 and succeeding years, the above omitted provision shall again become a part of future lease agreements effective on and after that date.

#### RENEWAL OF LEASE OF BOYNTON BRIDGE—PALM BEACH COUNTY

On motion of Mr. Ward, seconded by Mr. Townsend, the following resolution was adopted:

BE IT RESOLVED that the action of

the Chairman and Secretary of this Department in executing a renewal lease of the bridge on Road 195 across the Indian

Phone 2-3505

Road Service

#### Taylor's Service Station Earl's Pure Battery Service

100 North Main St.

Orlando, Fla.

#### FIDELITY STORAGE & WAREHOUSE CO.

ORLANDO

FLORIDA

Household Goods Storage and Moving  
Merchandise Storage

#### AL HUPPEL

Specialized Automotive Service  
IGNITION — CARBURETOR

443-47 West Central Ave.

Phone 2-3118

Orlando, Fla.

#### MILLER MACHINE CO.

Auto Parts Jobbers and Motor  
Rebuilders

Standard Parts and Materials Only  
329-333 West Central Avenue

ORLANDO, FLORIDA

#### FRIERSON'S TIRE SERVICE

Gerald E. Frierson

DeLand,

Florida

#### A. DUDA & SONS

Growers and Shippers

Fancy Celery

OVIEDO (Slavia) FLORIDA

#### B. D. McINTOSH

Yellow Pine and Cypress Lumber

Altamonte Springs, Fla.

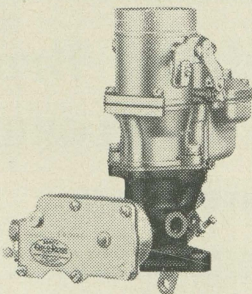
Phone 1307R

Winter Park Line



#### Medlock Tractor Co. CASE

Quality Machines for  
Profitable Farming  
Complete - Parts Service  
539 W. Central Ave.  
Phone 2-3460  
ORLANDO, FLORIDA



#### Bailey Motor Equipment Co.

Automotive - Marine - Industrial  
Carburetors - Governors - Ignition  
Fuel & Oil Filters - Air Cleaners  
78 N. Garland St. Orlando, Fla.

WON'T YOU

HAV - A - TAMPA

CIGAR

CENTRAL CIGAR AND TOBACCO CO.

E. F. FITCH, President

S. L. KILGORE, Sales Manager

#### FLORIDA CRUSHED STONE COMPANY

"BROOKSVILLE STONE"

WASHED - CRUSHED - SIZED

FOR ALL PURPOSES

Sales Office:

LEESBURG, FLORIDA

Offices:  
Ocala, Fla.  
Leesburg, Fla.  
Jacksonville, Fla.

Quarries:  
Conrock, Fla.  
Camp, Fla.  
Gay, Fla.



River at Boynton, Palm Beach County, for the period beginning January 1, 1943 and running for one year, at the monthly rental price of \$342.33, be and the same is hereby approved, confirmed and ratified as the act of this Department.

**RENEWAL OF LEASE OF LAKE WORTH BRIDGE—P. BEACH COUNTY**

On motion of Mr. Ward, seconded by Mr. Townsend, the following resolution was adopted:

BE IT RESOLVED that the action of the Chairman and Secretary of this Department in executing a renewal lease of the bridge on Road 174. across the Indian River at Lake Worth, Palm Beach County, for the period beginning January 1, 1943 and running for one year, at the monthly rental price of \$1,000.00, be and the same is hereby approved, confirmed and ratified as the act of this Department.

**ORANGE COUNTY—ROAD 3—CANCELLATION OF R/W CONTRACT BOND**

On motion of Mr. Ward, seconded by Mr. Lindsey, the following resolution was adopted:

BE IT RESOLVED that American Surety Company of New York is hereby released and discharged from each and every of its obligations to the State Road Department under that certain surety bond executed by Orange County, as principal, and said corporation, as surety, to this Department, as obligee, dated the 9th day of December, A. D. 1925, in the penal sum of \$5,000.00, conditioned to secure the performance of a certain Right of Way Contract dated the 9th day of December, A. D. 1925, between the said County and this Department, concerning the acquisition by said County of rights of way to this Department for Project No. 167-B. of State Road No. 3, and said surety bond is hereby terminated and canceled: Provided that nothing herein shall be taken or construed to mean that said Right of Way Contract between said County and this Department is in any wise impaired, modified or affected.

**FLAGLER COUNTY—ROAD 134—CANCELLATION OF R/W CONTRACT BOND**

On motion of Mr. Ward, seconded by Mr. Lindsey, the following resolution was adopted:

BE IT RESOLVED that American Surety Company of New York is hereby released and discharged from each and every of its obligations to the State Road Department under that certain surety bond executed by Flagler County, as principal, and said corporation, as surety, to this Department, as obligee, dated the 20th day of September, A. D. 1937 in the penal sum of \$5 000.00, conditioned to secure the performance of a certain Right of Way Contract dated the 20th day of September, A. D. 1937, between the said County and this Department, concerning the acquisition by said County of rights of way to this Department for Project No. 1237, of State Road No. 134, and said surety bond is hereby terminated and canceled; Provided that nothing herein shall be taken or construed to mean that said Right of Way Contract between said County and this Department is in any wise impaired, modified or affected.

**HILLSBOROUGH COUNTY—ROAD 545 CANCELLATION OF R/W CONTRACT BOND**

On motion of Mr. Townsend, seconded by Mr. Ward, the following resolution was adopted:

BE IT RESOLVED that American Surety Company of New York is hereby released and discharged from each and every of its obligations to the State Road Department under that certain surety bond executed by Hillsborough County, as principal, and said corporation, as surety, to this Department, as obligee, dated the 10th day of January, A. D. 1941, in the penal sum of \$5,000.00, conditioned to secure the performance of a certain Right of Way Contract dated the 10th day of January, A. D. 1941, between the said County and this Department, concerning the acquisition by said County of rights

of way to this Department for Project No. 5367, of State Road No. 545, and said surety bond is hereby terminated and canceled; Provided that nothing herein shall be taken or construed to mean that said Right of Way Contract between said County and this Department is in any wise impaired, modified or affected.

**PASCO COUNTY—ROAD 15—CANCELLATION OF R/W CONTRACT BOND**

On motion of Mr. Townsend, seconded by Mr. Ward, the following resolution was adopted:

BE IT RESOLVED that American Surety Company of New York is hereby released and discharged from each and every of its obligations to the State Road Department under that certain surety bond

executed by Pasco County, as principal and said corporation, as surety, to this Department, as obligee, dated the 15th day of July A. D. 1940, in the penal sum of

"SELECT-O-SWEETS"

**M M S Fruit Company**

Growers and Shippers

**TREE RIPENED FRUIT**

Phone Apopka 6430

ZELLWOOD

FLORIDA

**J. D. COX**

**CANNERY FRUIT BIN**

Ocoee, Florida

**HARRIS & WADE PACKING CO.**

**GROWERS - PACKERS - SHIPPERS OF CITRUS FRUIT**

EUSTIS

FLORIDA

Henry W. Land, Pres. & Gen'l Mgr.

Josephine H. Land, Vice Pres.

W. A. Greenleaf, Sec'y & Treas.

**CONSUMERS LUMBER AND VENEER COMPANY**

Established 1896

Manufacturers

Incorporated 1903

"ALL-BOUND" AND NAILED CITRUS AND VEGETABLE BOXES

Phone 44

Rail and Truck Delivery

Apopka, Florida

**Heller Brothers Packing Co.**

**FLORIDA CITRUS FRUIT**

WINTER GARDEN

FLORIDA

Office 3401

PHONES

Residence 2064

**P. B. GOETHE**

Manufacturers of

**FRUIT AND VEGETABLE CONTAINERS**

MOUNT DORA

FLORIDA

**Lewis Carroll**

**Fresh Fruits and Vegetables**

**DEPENDABLE REFRIGERATED TRUCKS**

Phone 2704

611 Highland Ave.

Mount Dora, Fla.



\$5,000.00, conditioned to secure the performance of a certain Right of Way Contract dated the 15th day of July A. D. 1940, between the said County and this Department, concerning the acquisition by said County of rights of way to this Department for Project No. 795-C of State Road No. 15, and said surety bond is hereby terminated and canceled; Provided that nothing herein shall be taken or construed to mean that said Right of Way Contract between said County and this Department is in any wise impaired, modified or affected.

#### REFUSAL TO CANCEL R/W CONTRACT BOND ON ROAD 140, VOLUSIA COUNTY

On motion of Mr. Ward, seconded by Mr. Stockton, the Attorney was directed to write to Volusia County Commissioners and advise that the Department refuses to cancel the Right of Way contract on Road 140 in that County and expects the County to acquire the right of way for Project 996 on the said road, as asked for in State Road Department resolution of June 6, 1939 and guaranteed in the county's resolution and contract of June 22, 1939.

#### REQUEST FOR BRIDGE DATA

On motion of Mr. Stockton, seconded by Mr. Lindsey, the following resolution was adopted:

BE IT RESOLVED that the engineers be and they are requested to make a survey of all bridges on connecting link roads that should be maintained by the Department, including the estimated operating cost of said bridges, and be ready to make complete report at the next meeting, with recommendations in regard to the lighting of the bridges. Also that a study be made of the current bridge leases.

#### MEMBERSHIP IN AMERICAN ASSOCIATION STATE HIGHWAY OFFICIALS

On motion of Mr. Stockton, seconded by Mr. Ward, it was agreed that the matter of the Department's dues in amount of \$750.00 per year for membership in the American Association of State Highway Officials be referred to the Chairman for attention and action.

#### PURCHASE OF PROPERTY ADJACENT TO CAPITOL BUILDING

The Chairman informed the other Members of the Department that pursuant to plans previously discussed from time to time by the Members of the Department, the city block in the City of Tallahassee which fronts on Adams Street and is situated immediately west of the northerly part of the State Capitol building square, had been purchased subject to existing mortgages for a site upon which to construct a new State Road Department headquarters building. The Members agreed that the present headquarters located in the Martin Building are inadequate for the efficient accomplishment of the normal duties and functions of the Department; that other State agencies have been crowded into the Martin Building, making it necessary that the Department rent outside office space; that because of its close proximity to the State Capitol this site is ideally located; that its purchase now before anticipated new private improvements thereon will result in saving to the State, and for these reasons the purchase of this site is practicable and to the best interest of the State.

The Chairman explained the details of the purchase, and also advised that, as he had previously reported to the Board, the Department had been requested to purchase this block by the Board of Commissioners of State Institutions by its resolution adopted March 17, 1942, and that the Attorney General had rendered his written opinion under date of May 18, 1942, advising that the Department was legally authorized to purchase this block for the purpose stated; and that the State Comptroller had approved the method of paying the purchase price.

On motion of Mr. Ward, seconded by Mr. Townsend, the Members voted unanimously in favor of ratification, approval and confirmation of the action of the

Chairman and Secretary in carrying out plans for the purchase of the property described above.

#### SPEED LIMIT ON SECTION OF ROAD 22

On motion of Mr. Ward, seconded by Mr. Townsend, the following resolution was adopted:

WHEREAS, request has come to this Department from officers of the U. S.

Army that a speed limit of 15 miles per hour be set for that section of Road 22 from Mill Street in the City of Orlando

#### ASSOCIATED CONCRETE PIPE COMPANY

of Florida, Inc.  
P. O. Box 115

HIALEAH

FLORIDA

Phone 380 for Prompt and Reliable Service

#### Hollywood Storage & Transfer Company

Baggage Transfer - Packing - Moving  
21st & Filmore Street  
Hollywood Florida

#### Rutherford Lumber Co., Inc.

Active Operators of  
**JEFFERY LUMBER CO., INC.**  
Manufacturers of and Dealers in  
Long Leaf Yellow Pine Lumber  
H. P. Rutherford, Pres.  
Homestead Florida



#### Powell Motor Company

Ford Mercury  
Lincoln Dealers

Ft. Lauderdale

Florida

#### PIONEER MOTOR SALES CO.

Established 1928

L. E. WILL, Pres.

Box No. 307

Phone 10

All Auto Supplies and Repairs

"THAT GOOD GULF GAS"

BELLE GLADE,

FLORIDA

#### Nevins Fruit Company Inc.

Packers and Shippers of

Indian River Fruit

TITUSVILLE, FLORIDA

#### HERMAN J. HEIDRICH & SONS

Growers and Shippers of Fancy Fruit and Vegetables

ORLANDO

Main Office

FLORIDA

## LAMAR HOTEL

L. B. McLeod  
Construction Co.  
Owners

Steam Heat - Free Parking

ORLANDO, FLORIDA

Mac J. Laird  
Manager

ORLANDO'S LEADING MEDIUM PRICED HOTEL



east to Barton Lake, a distance of about three miles, because of the very heavy traffic on said road; and

WHEREAS, the engineers of this Department concur in this recommendation, BE IT RESOLVED that the maximum speed for said road is hereby set at 15 miles per hour, under authority of Chapter 20578, Laws of Florida, Acts of 1941, and the Maintenance Engineer be and he is directed to have suitable signs erected.

#### DELEGATIONS AND REQUESTS

##### Dade County

Member Lindsey presented a letter from A. B. Curry, City Manager of Miami, requesting the Department to take over for maintenance, repair and operation the Southeast 2nd Avenue Bridge in said city, and that an agreement be entered into with the City for the purchase of the said bridge upon terms and conditions to be agreed upon. The letter contained the information that the bridge was constructed by the City in 1929, at a cost of \$534,439.37, and has been operated since that time at an annual cost of \$5,033.00.

##### Duval County

J. F. Hammond, Chairman of the Board of County Commissioners, and A. N. Sollee, County Engineer, were present from Duval County.

Mr. Hammond spoke in behalf of the uncompleted portion of Road 204, recently advertised by the Department but not awarded because of excessive bid prices, and he urged the completion of this road as soon as possible. He also asked for the completion of the Post Street and Edison route that comes into Lenox Avenue, after the completion of Road 204. He thanked the Board for what it has done for Duval County.

Mr. Sollee spoke in behalf of the Lenox Avenue route and asked that a party be placed on the survey of this road in a northeast direction. He stated that this road would eliminate heavy traffic coming into River Avenue.

##### Hernando County

Mr. Townsend presented a request from Dr. G. R. Creekmore of Brooksville and Representative C. L. Lowman, asking for maintenance of Road 34 from Brooksville to the West Coast highway at the Hernando-Citrus County line, and maintenance of the loop from the West Coast highway into Aripeka.

RESOLUTION: On motion of Mr. Stockton, seconded by Mr. Lindsey, the following resolution was adopted:

BE IT RESOLVED that this Department regrets its inability to grant the requests of Hernando County because of its policy, due to restricted revenue, not to take over any roads for maintenance at this time.

##### Hillsborough County

Hillsborough County was represented by Commissioners E. W. Simmons and T. L. Hackney, and Engineer J. K. Merrin.

Mr. Simmons and Mr. Merrin presented the following requests from the Board of County Commissioners:

1. The reconstruction of Road 79 from Tampa to Polk County.

2. Maintenance of 22nd Street Causeway, Road 316, from Tampa to Road 5.

3. Maintenance of Gunn Highway from Tampa northwest to Pasco County line.

4. Reconstruction and maintenance of Florida Avenue, Road 313, from its junction with Road 5 southward to Road 17.

5. Maintenance of Road 30 from Road 23 at Ruskin east to the Polk County line.

6. Reconstruction of Road 23 north from the Hillsborough County line to its intersection with Road 156 near Zephyrhills.

Mr. Merrin stated that they were proceeding with the acquisition of right of way on Vera Street and Road 17 and expected to have it completed at an early date.

##### Palm Beach County

Messrs. A. A. Poston, Chairman, and C. Y. Byrd and Doyle W. Crocker, Members of the Board of County Commissioners, and Turner Wallis, County Engineer, were present from Palm Beach County.

Mr. Byrd spoke in behalf of Road 199

and requested the Department to require the contractors to rush this work to completion or to have it done by someone else. He also asked that a survey be made on U. S. Highway 1, the old Federal highway, from Broward County north, in order that the county may secure the right of way for the work to be done after the war.

Mr. Poston endorsed the latter request, stating that the price of the right of way would be much cheaper now than later. He asked that something be done on the Belle Glade-Pahokee Road, now in bad condition. He was advised that it might be possible to get this road built with Access Road funds if the County would request Army officials to make request that such funds be used on the road. Mr. Poston also spoke in behalf of the Hillsborough Canal road, approximately 6 miles from Shawano north along the canal. The Department requested the County to obtain 150 foot additional right of way for this road over the width of the right of way for the canal.

Mr. Poston requested the Department to hold its February Budget meeting in Tampa at the same time that the State Association of County Commissioners will hold its annual meeting there, on or about the 24th.

##### Pinellas County

Senator John S. Taylor, Representative Archie Clements, Commissioners Frank G. Merrin and John Chestnut, and County Engineer W. A. McMullen were present from Pinellas County.

Mr. Merrin presented a resolution from

the County Commissioners making the following requests:

1. Acquisition of necessary right of way

#### OOLITE ROCK COMPANY

Producers of

Miami Oolite Lime Rock  
Grades No. 1 and No. 2

P. O. Box 1751

Miami

PHONE 7686

#### SERVICE TRANSFER & STORAGE

Local & Long Distance Movers  
405 South Dixie Highway  
WEST PALM BEACH, FLORIDA

A Complete Line In Every  
Department

MIAMI PARTS & SPRING CO.,  
INC.

35 to 41 Northwest Fourth Street  
Miami, Florida

Affiliate: Berner-Pease, Inc.  
Miami, Florida

Affiliate: Auto Parts & Equipment  
Co., (Not Inc.)

Fort Lauderdale, Florida

Affiliate: Motor Parts & Equipment  
Co., Inc.

West Palm Beach, Florida

#### J. V. D'ALBORA COMPANY

Growers - Packers - Shippers—INDIAN RIVER CITRUS FRUIT

Cocoa, Florida

#### Seminole Rock & Sand Company

Producers of "Fresh Water" Products

Concrete Rock, Pea Rock, Sand, Screenings, Railroad Ballast

MIAMI

P. O. Box 3430

FLORIDA

DIESEL  
TRACTORS

CATERPILLAR

Reg. U. S. Pat. Off.

ROAD  
MACHINERY

ALL LINES INDUSTRIAL MACHINERY

SHELLEY TRACTOR & EQUIPMENT COMPANY

MIAMI,

3650 Bird Road

FLORIDA

#### E. A. PYNCHON

General Heavy Construction

Paving

Sewers

Pile Driving

Sea Walls

Excavation

Concrete

Rock

Sand

Fill

Member American Road Builders' Association

P. O. Box 1921

North Miami, Florida

## Cleary Bros. Construction Co.

General Contractors

West Palm Beach

Florida



in Pasco County from State Road 210 south to Pinellas County.

2. Furnishing to the Commissioners at earliest possible moment legal description of Gulf Coast Highway from county line through Pinellas County in order that the Board may advantageously acquire the right of way at this time.

3. That the Department continue to use its best efforts in cooperation with Federal Agencies in the early completion of Road 17 from its present termination in Hillsborough County to the agreed termination in Pinellas.

4. That the Department stand by able and ready to lend immediate assistance in the fulfillment of the State's part if, as and when the Military forces or other Federal Agencies decide upon the paving of Disston Boulevard from Road 64 to Road 73 via Pinellas County airport. Pinellas County stands ready to furnish certain equipment.

5. That the Department admonish its contractor on the Gulf Coast Highway through Citrus and Levy counties to expedite work toward early completion.

The resolution thanked the Department for the splendid effort and cooperation already given to Pinellas County specifically on Roads 17, 15, 73 and 64.

Senator Taylor also expressed the appreciation of the people of Pinellas County for work already done, but urged the completion of the Gulf Coast Highway into St. Petersburg. He asked that it be designated and graded into St. Petersburg as soon as possible.

Mr. McMullen asked that no publicity be given the location of this road until the right of way has been secured in order to keep down the cost of the right of way.

#### St. Johns County

The delegation from St. Johns County included Commissioners H. H. Bailey, H. B. Hersey and H. K. Jackson, and Attorney Frank D. Upchurch.

Mr. Bailey expressed his appreciation for all the Board has done for St. Johns County and complimented the Board very highly on its efficiency.

Mr. Jackson urged consideration of improvement of Road 14-A from Road 4 to Road 140, stating that if anything should happen to close the Bridge of Lions this other connection would be greatly needed. He stated that the local people are pressing him for this road and some of the property owners are giving 10 feet of their 50-foot lots for the right of way.

Their special request was that the Department lay a white center line instead of the orange strip on Road 140 from the Bridge of Lions to a point about five miles south.

#### U. S. GEOLOGICAL SURVEY—COOPERATIVE COLLECTION OF STREAM DATA

Mr. G. E. Ferguson, District Engineer of the U. S. Geological Survey, asked for a continuation of the project for cooperative collection of stream data during the year 1943. He explained the value of the service and gave details of the work done. He was advised that this item has been placed in the annual budget.

#### CONSIDERATION AND ADOPTION OF 1943 BUDGET

The tentative budget of construction and maintenance and the estimate of resources for the year 1943 were placed before the members for consideration.

On motion of Mr. Townsend, seconded by Mr. Stockton, the following resolution was adopted:

BE IT RESOLVED, that the proposed Budget of Construction, Maintenance and Betterment work for the year 1943, in the words and figures following, to wit:

(See budget pages 24-30)

be and the same is hereby adopted.

BE IT FURTHER RESOLVED, that the Chairman be and he is hereby authorized and directed to have published in one newspaper in each of the cities of Pensacola, Jacksonville, Orlando, Tampa and Miami, the said proposed budget of work and estimate of resources, together with a notice of the time and place when and

at which the Department will hold the public hearing, at which time and place it will hear all complaints and suggestions offered by the public as to any changes in said budget.

BE IT FURTHER RESOLVED, that the Chairman be and he is hereby directed to furnish to each clerk of the circuit court of the State, two copies of said budget of work, together with notice of the public hearing above referred to, in accordance with the provisions of Section 1, Chapter 9312, Acts of 1923.

#### DATE AND PLACE OF BUDGET HEARING MEETING

On motion of Mr. Townsend, seconded by Mr. Lindsey, the following resolution was adopted:

BE IT RESOLVED, that this Department does hereby fix Tampa, Florida, as

the place where, and February 25, 1943 as the time when the Department will hold public hearing on the budget, at which time and place it will hear all complaints and suggestions offered by the public as to any changes in said budget in accordance with the provisions of Section 1, Chapter 9312, Acts of 1923.

#### ADJOURNMENT

On motion of Mr. Ward, seconded by Mr. Lindsey, the meeting was adjourned.

#### VAUGHN & WRIGHT

GENUINE McQUAY — NORRIS  
AUTO & TRUCK PARTS  
W. Palm Beach - Ft. Pierce

#### 24-Hour Service

### SUNRISE MOTOR COMPANY

FORD - LINCOLN - MERCURY

305-325 South Dixie

Fort Pierce, Florida

### POWERS & ARCHIBALD, INC.

GENERAL CONTRACTORS

E. F. Powers, Pres.

405 HARVEY BUILDING

WEST PALM BEACH, FLORIDA

### BROWN TRANSFER & STORAGE SERVICE

Local

TRANSPORTATION

Long Distance

PACKING

STORAGE

CRATING

1609 So. Poinsettia Ave.

West Palm Beach, Fla.

Crating

Local & Long Distance Movers

Shipping

### Daniels & Son Transfer and Storage

312 - 6th Street

Phone 8797

West Palm Beach, Fla.

For AMBULANCE SERVICE PHONE 5172

## FERGUSON FUNERAL HOME, INC.

WEST PALM BEACH, FLORIDA

REPAIRING

RENTALS

REBUILDING

ELECTRIC WELDING

ACETYLENE WELDING

MACHINE WORK

### DRAINAGE MACHINERY & SUPPLY CO.

PARTS AND SERVICE

Link-Belt Speeder

John Deere

Drag Lines - Cranes - Shovels

Tractors - Implements

Telephone 437—P. O. Box 787

410 Boston Avenue

Fort Pierce, Florida



# STATE ROAD DEPARTMENT OF FLORIDA

## TENTATIVE BUDGET FOR FISCAL YEAR 1943

ASSETS				LIABILITIES			
Cash available for General Purposes.....	\$	3,659,298.23		Accounts Payable December 31, 1942—			
Restricted Cash Funds:				Contractor's Estimates and Retainage .....	\$	726,917.46	
For Counties—Second Gas Tax, Chapter 15659, Acts of 1931 .....	\$	390,893.03		Audited Bills .....		156,368.58	
For Counties—Surplus Funds, Chapter 20302, Acts of 1941 .....		2,502,130.88	2,893,023.91	Purchase Order Commitments .....		143,709.40	
Reserves:				Workmen's Compensation—Claims pending .....		26,492.65	\$ 1,053,488.09
Reserved for replacement of equipment.....	\$	386,715.65		Due Federal Government:			
Reserved for Emergency War Damages .....	\$	1,000,000.00	1,386,715.65	For Advance Overseas Projects .....		500,000.00	
Federal Trust Fund:				Reserves:			
Defense Highway Act of 1941—Overseas Highway...		431,141.68		Legal Reserves 10% of Estimated State Revenues..		1,022,000.00	
Total Cash .....	\$	8,370,179.47		Reserve for replacement of equipment.....		386,715.65	
Federal Receivables:				Reserve for Emergency War Damages .....		1,000,000.00	
Due us from Federal Government on work performed and financed by us .....		857,312.36		Restricted Allotments:			
Federal Receivables:				For Counties—Second Gas Tax, Chapter 15659, Acts of 1931 .....		382,516.72	
To be refunded us as work progresses on Federal Aid Strategic Network, Flight Strips and Access Roads .....		5,841,538.57		For Counties—Surplus Funds, Chapter 20302, Acts of 1941 .....		2,443,489.60	2,826,006.32
Estimated Revenues:				Administrative Accounts .....		505,272.02	
4c per gallon tax .....	10,200,000.00			Division and Maintenance Office Expense .....		354,948.50	
Estimated County Surplus .....	433,245.71			Maintenance of Roads for 1943—Schedule 1 .....		5,984,707.79	
Outdoor Advertising Division .....	20,000.00	10,653,245.71		Bridge Lease and Lease Purchase Agreements .....		409,902.96	
Federal Projects:				Construction Underway—Schedule 2—			
Approved for 1943 .....		5,730,630.50		Federal Projects:			
TOTAL ASSETS .....	\$	31,452,906.61		County Funds .....		4,942.45	
				Federal Funds .....		5,841,538.57	
				State Funds .....		1,237,585.90	7,084,066.92
				State Projects:			
				County Funds .....		495,320.85	
				State Funds .....		1,859,916.53	2,391,237.38
				Federal Construction Proposed—Schedule 2:			
				Federal Aid, Strategic Network, Flight Strips and Access Roads .....		5,730,630.50	
				State Funds to match Federal Regular and Secondary .....		1,189,257.25	6,919,887.75
				Federal Carrying Fund—5% of Proposed Federal Aid..		286,531.53	
				Surveys underway and proposed for 1943.....		562,500.00	
				Surplus—Estimated Cash or Receivables December 31, 1943 .....		165,641.70	
				TOTAL LIABILITIES .....		\$ 31,452,906.61	

# STATE ROAD DEPARTMENT OF FLORIDA

## PERCENTAGE OF REVENUES FROM VARIOUS SOURCES AND PERCENTAGE OF APPROPRIATIONS TO VARIOUS OPERATIONS

### TENTATIVE BUDGET FOR FISCAL YEAR 1943

ASSETS				LIABILITIES			
Cash on Hand .....	\$	5,046,013.88	.1604	Accounts Payable .....	\$	1,053,488.09	.0335
Gasoline Tax for General Purposes .....		10,200,000.00	.3243	Due Federal Government for Advance Overseas Project.....		500,000.00	.0159
Miscellaneous .....		20,000.00	.0006	Reserves .....		2,408,715.65	.0768
County Revenues:				Administrative Salaries, Expenses and Investments .....		860,220.52	.0273
Cash on Hand .....		2,893,023.91	.0920	Maintenance and Bridge Leases .....		6,394,610.75	.2033
Estimated Revenues .....		433,245.71	.0138	Construction .....		20,070,229.90	.6381
Federal Trust Fund .....		431,141.68	.0137	Surplus .....		165,641.70	.0053
Federal Revenues .....		12,429,481.43	.3952				
TOTAL .....	\$	31,452,906.61	100%	TOTAL .....		\$ 31,452,906.61	100%



## Summary

## STATE ROAD DEPARTMENT OF FLORIDA—TENTATIVE MAINTENANCE BUDGET 1943

## Schedule 1

	ROAD MI.	BRIDGE FT.	ROADS	BRIDGES	Engineering Supervision	TOTAL
FIRST DIVISION .....	1,633.87	79,274.54	\$ 708,243.39	\$ 113,649.40	\$ 85,467.47	\$ 907,360.26
SECOND DIVISION .....	1,647.81	56,308.38	961,034.94	122,777.00	103,252.25	1,187,064.19
THIRD DIVISION .....	1,905.68	151,174.82	891,835.22	358,093.77	68,031.70	1,317,960.69
FOURTH DIVISION .....	1,216.01	113,860.95	836,587.38	169,078.46	141,944.75	1,147,610.59
FIFTH DIVISION .....	1,882.35	93,634.23	1,189,528.63	116,968.00	118,215.43	1,424,712.06
TOTALS .....	8,285.72	494,252.92	\$ 4,587,229.56	\$ 880,566.63	\$ 516,911.60	\$ 5,984,707.79

## Recapitulation

## STATE ROAD DEPARTMENT OF FLORIDA—CONSTRUCTION BUDGET FOR 1943

## Schedule 2

	1943 BUDGET			TYPES OF WORK			FUNDS			TOTAL FUNDS
	UNDERWAY STATE FORCES	UNDERWAY CONTRACT	PROPOSED	GRADING	PAVING	STRUCTURES	STATE	COUNTY	FEDERAL	
FIRST DIVISION .....	\$ 317,314.07	\$ 1,176,404.06	\$ 1,635,984.75	\$ 95,287.00	\$ 2,989,279.29	\$ 45,136.59	\$ 828,884.75	\$ 25,071.42	\$ 2,275,746.71	\$ 3,129,702.88
SECOND DIVISION .....	68,554.60	264,973.30	1,150,481.00	68,554.60	1,393,651.95	21,802.35	374,840.12	49,599.93	1,059,568.85	1,484,008.90
THIRD DIVISION .....	276,911.64	1,302,388.51	1,490,320.00	292,784.80	2,372,533.95	404,301.40	638,227.75	276,911.64	2,154,480.76	3,069,620.15
FOURTH DIVISION .....	2,742,080.31	2,387,294.15	943,595.00	.....	4,831,705.97	1,241,263.49	1,538,530.16	148,680.31	4,385,758.99	6,072,969.46
FIFTH DIVISION .....	280,604.54	658,779.12	1,699,507.00	52,059.14	2,356,100.80	230,730.72	942,276.92	.....	1,696,613.74	2,638,890.66
TOTALS.....	\$ 3,685,465.16	\$ 5,789,839.14	\$ 6,919,887.75	\$ 508,685.54	\$ 13,943,271.96	\$ 1,943,234.55	\$ 4,322,759.70	\$ 500,263.30	\$ 11,572,169.05	\$ 16,395,192.05



## First Division

## STATE ROAD DEPARTMENT OF FLORIDA—CONSTRUCTION BUDGET FOR 1943

## Schedule 2

County	Project No.	Road No.	Length	Description	1943 BUDGET			TYPE OF WORK			FUNDS			Total Funds
					Underway State Forces	Underway Contract	Proposed	Grading	Paving	Structures	State	County	Federal	
Glades	SN-FA-122-A	8-A	0.50	Highlands Co. Line—South	\$ .....	\$ 19,769.77	\$ .....	\$ .....	\$ 19,769.77	\$ .....	\$ .....	\$ 4,942.45	\$ 14,827.32	\$ 19,769.77
Glades	5575	29	10.53	Moore-Haven-Clewiston	3,829.07	.....	.....	.....	3,829.07	.....	.....	3,829.07	.....	3,829.07
Hendry	5002(4)	164	1.588	South of LaBelle-Desota Ave., in LaBelle	.....	16,299.90	.....	.....	16,299.90	.....	.....	16,299.90	.....	16,299.90
Highlands	5185	349	3.5	3 Miles East of Lake Placid—East	5,998.00	.....	.....	.....	5,998.00	.....	5,998.00	.....	.....	5,998.00
Highlands	SN-FA-122-A	8-A	12.127	Glades Co. Line—Road 8	.....	479,496.68	.....	.....	479,496.68	.....	119,874.17	.....	359,622.51	479,496.68
Highlands	DA-WR-5(1)	341-32	7.07	Avon Park—Polk County Line	.....	292,702.25	.....	.....	292,702.25	.....	.....	.....	292,702.25	292,702.25
Highlands	SN-FA-122-B(1)	8-A	5.630	Lake Placid—Road 8	.....	.....	206,250.00	.....	206,250.00	.....	51,562.50	.....	154,687.50	206,250.00
Hillsborough	3166	17	78'	East of Lake Annie Plant City—Tampa	2,200.00	.....	.....	.....	2,200.00	.....	2,200.00	.....	.....	2,200.00
Hillsborough	DA-NI-13	556	1.036	22nd St.—Hooker's Point	.....	26,950.34	.....	.....	26,950.34	.....	.....	.....	26,950.34	26,950.34
Hillsborough	DA-WR-6	545	4.265	Vera Street in Tampa (Drew Field)	.....	.....	475,981.00	.....	475,981.00	.....	.....	.....	475,981.00	475,981.00
Hillsborough	SN-FAS-77	17	4.853	Project 96-A—Pinellas Co. Line	.....	.....	472,934.17	.....	472,934.17	.....	118,233.54	.....	354,700.63	472,934.17
Lee	DA-WR-7	341	6.3	Ft. Myers—Gunnery School	.....	.....	308,275.00	.....	308,275.00	.....	.....	.....	308,275.00	308,275.00
Lee	DA-WR-8	341	1.7	Buckingham—Gunnery School	.....	.....	72,875.00	.....	72,875.00	.....	.....	.....	72,875.00	72,875.00
Manatee	FAGS-250-B	23	.....	Signals at ACL RR at Gillette	.....	4,480.60	.....	.....	.....	4,480.60	.....	.....	4,480.60	4,480.60
Pinellas	SN-FAS-77	17	0.378	Hillsborough Co. Line—Oldsmar	.....	.....	36,836.83	.....	36,836.83	.....	9,209.21	.....	27,627.62	36,836.83
Pinellas	FAGM-27-A	.....	.....	Signals in St. Petersburg	.....	18,281.00	.....	.....	.....	18,281.00	.....	.....	18,281.00	18,281.00
Polk	DA-WR-5(1)	341	2.07	Highlands Co. Line—Sebring Bombing Range	.....	81,728.20	.....	.....	81,728.20	.....	.....	.....	81,728.20	81,728.20
Polk	FAGS-17-A	2	0.568	SAL RR South of Winter Haven	.....	20,174.99	.....	.....	.....	20,174.99	.....	.....	20,174.99	20,174.99
Polk	5696	34	9.4	Pasco Co. Line—Providence	95,287.00	.....	.....	95,287.00	.....	.....	95,287.00	.....	.....	95,287.00
Polk	5158	79	14.451	Bartow—Lake Wales	210,000.00	.....	.....	.....	210,000.00	.....	210,000.00	.....	.....	210,000.00
Polk	5209 (3)	8	5.603	Dundee—Haines City	.....	188,472.85	.....	.....	188,472.85	.....	188,472.85	.....	.....	188,472.85
Polk	5022 (2)	2	2.045	In Lakeland	.....	18,997.76	.....	.....	18,997.76	.....	18,997.76	.....	.....	18,997.76
Polk	5158 (3)	79	7.758	Mulberry—Bartow	.....	9,049.72	.....	.....	9,049.72	.....	9,049.72	.....	.....	9,049.72
Polk	DA-WR-12	341	1.177	Lakeland Airport Field No. 2—Road No. 17	.....	.....	62,832.75	.....	62,832.75	.....	.....	.....	62,832.75	62,832.75
TOTALS					\$ 317,314.07	\$ 1,176,404.06	\$ 1,635,984.75	\$ 95,287.00	\$ 2,989,279.29	\$ 45,136.59	\$ 828,884.75	\$ 25,071.42	\$ 2,275,746.71	\$ 3,129,702.88



## Second Division

## STATE ROAD DEPARTMENT OF FLORIDA—CONSTRUCTION BUDGET FOR 1943

## Schedule 2

County	Project No.	Road No.	Length	Description	1943 BUDGET			TYPE OF WORK			FUNDS			Total Funds
					Underway State Forces	Underway Contract	Proposed	Grading	Paving	Structures	State	County	Federal	
Alachua	FAGM-208-A	5	.....	ACL RR Signals in Archer	\$ .....	\$ 1,511.14	\$ .....	\$ .....	\$ .....	\$ 1,511.14	\$ .....	\$ .....	\$ 1,511.14	\$ 1,511.14
Alachua	5630	378	4.25	Road No. 49—Road No. 99	13,454.67	.....	.....	13,454.67	.....	.....	13,454.67	.....	.....	13,454.67
Alachua	5497	486	4.067	Union County Line—South	5,500.00	.....	.....	5,500.00	.....	.....	5,500.00	.....	.....	5,500.00
Bradford	DA-WR-1-A	261	3.624	Starke-Clay County Line	.....	400.00	.....	.....	400.00	.....	.....	.....	400.00	400.00
Clay	DA-WR-1-A	261-48-551	5.007	Clay County Line—Camp Blanding—Road 48	.....	600.00	.....	.....	600.00	.....	.....	.....	600.00	600.00
Clay	DA-NR-3-A&B	3-48	5.33	Lee Field-Jacksonville	.....	.....	355,730.00	.....	355,730.00	.....	.....	.....	355,730.00	355,730.00
Clay	5524	550	6.39	Camp Blanding-Middleburg	.....	21,850.00	.....	.....	21,850.00	.....	21,850.00	.....	.....	21,850.00
Clay	DA-WR-1-B	48	2.57	DA-WR-1-A-NW Entrance Camp Blanding	.....	.....	194,454.00	.....	194,454.00	.....	.....	.....	194,454.00	194,454.00
Clay	5450	48	0.24	Project 5451—Road No. 68	.....	1,500.00	.....	.....	1,500.00	.....	1,500.00	.....	.....	1,500.00
Duval	5438	376	15.5	So. Jacksonville-Jacksonville Beach	49,599.93	.....	.....	49,599.93	.....	.....	.....	49,599.93	.....	49,599.93
Duval	DA-NR-2	341	4.391	Atlantic Peach-Mayport	.....	.....	190,868.00	.....	190,868.00	.....	.....	.....	190,868.00	190,868.00
Duval	DA-NR-9	553	6.953	Road No. 139—Cecil Field	.....	.....	130,000.00	.....	130,000.00	.....	.....	.....	130,000.00	130,000.00
Duval	FAGS-79	.....	.....	ACL RR Signals on Timuquana Road	.....	10,091.40	.....	.....	.....	10,091.40	.....	.....	10,091.40	10,091.40
Duval	AW-FA-196-C	204	7.581	Chaffee Road - Jacksonville	.....	.....	227,429.00	.....	227,429.00	.....	113,714.50	.....	113,714.50	227,429.00
Levy	5033	15	10.15	Lebanon-Citrus County Line	.....	218,820.95	.....	.....	218,820.95	.....	218,820.85	.....	.....	218,820.95
Levy	FAGS-61	500	.....	ACL RR Signals at Wiliston	.....	6,200.70	.....	.....	.....	6,200.70	.....	.....	6,200.70	6,200.70
Levy	DA-WR-13	341	.....	Access to Montbrook Airport	.....	.....	52,000.00	.....	52,000.00	.....	.....	.....	52,000.00	52,000.00
Suwannee	FAGH-10-A	1	.....	ACL RR at Live Oak	.....	3,999.11	.....	.....	.....	3,999.11	.....	.....	3,999.11	3,999.11
TOTALS .....					\$ 68,554.60	\$ 264,973.30	\$ 1,150,481.00	\$ 68,554.60	\$ 1,393,651.95	\$ 21,802.35	\$ 374,840.12	\$ 49,599.93	\$ 1,059,568.85	\$ 1,484,008.90



## Third Division

## STATE ROAD DEPARTMENT OF FLORIDA—CONSTRUCTION BUDGET FOR 1943

## Schedule 2

County	Project No.	Road No.	Length	Description	1943 BUDGET			TYPE OF WORK			FUNDS			Total Funds
					Underway State Forces	Underway Contract	Proposed	Grading	Paving	Structures	State	County	Federal	
Bay	DA-NI-12	15-C & 10	4.4	Access to Wainwright Shipyard . . . . .	\$ . . . . .	\$ . . . . .	\$ 182,000.00	\$ 82,000.00	\$ 100,000.00	\$ . . . . .	\$ . . . . .	\$ . . . . .	\$ 182,000.00	\$ 182,000.00
Bay	DA-WR-9	10	.....	Tyndal Field Widening Strips . . . . .	.....	.....	8,020.00	6,700.00	1,320.00	.....	.....	.....	8,020.00	8,020.00
Calhoun	5345	84	396'	Four and Ten mile Creek	25,418.44	16,974.40	.....	.....	25,418.44	16,974.40	16,974.40	25,418.44	.....	42,392.84
Escambia	FAGM-48	.....	.....	Signals at L&N RR Crossing (Jordan St.) in Pensacola . . . . .	.....	25,997.26	.....	.....	.....	25,997.26	.....	.....	25,997.26	25,997.26
Escambia	AN-FA-120-B	365	1.526	Corry Field—Road No. 1 . . . . .	.....	137,117.13	.....	.....	137,117.13	.....	68,558.57	.....	68,558.56	137,117.13
Escambia	AN-FA-121-A	341	0.987	Corry Field—0.987 Miles East . . . . .	.....	5,956.96	.....	.....	5,956.96	.....	2,978.48	.....	2,978.48	5,956.96
Escambia	DA-WR-2-A	341	0.878	Road No. 93—Ft. Barrancas . . . . .	.....	20,623.27	.....	.....	20,623.27	.....	.....	.....	20,623.27	20,623.27
Escambia	DA-NR-7	341	0.945	Road No. 1—"V" Field..	.....	14,510.12	.....	.....	14,510.12	.....	.....	.....	14,510.12	14,510.12
Escambia	DA-NR-4	341	3.716	Road No. 93-Road No. 125 . . . . .	.....	148,803.47	.....	.....	148,803.47	.....	.....	.....	148,803.47	148,803.47
Escambia	FAGM-121-B	365	0.554	Project No. 121-A—"O" Street . . . . .	.....	13,306.73	.....	.....	13,306.73	.....	.....	.....	13,306.73	13,306.73
Escambia	DA-NR-5	341	1.377	Road No. 7—"K" Field..	.....	58,673.22	.....	.....	58,673.22	.....	.....	.....	58,673.22	58,673.22
Escambia	DA-NR-10-A	341	8.190	Road No. 1-Road No. 7..	.....	.....	185,500.00	.....	185,500.00	.....	.....	.....	185,500.00	185,500.00
Escambia	DA-NR-10-B	537	4.798	Road No. 7-Road No. 1-A	.....	.....	147,000.00	.....	147,000.00	.....	.....	.....	147,000.00	147,000.00
Escambia	5140	62	13.3	Davisville-Century . . . . .	50,000.00	.....	.....	36,437.50	13,562.50	.....	.....	50,000.00	.....	50,000.00
Escambia	5541	341	.....	Road No. 1—"K" Field..	5,000.00	.....	.....	5,000.00	.....	.....	.....	5,000.00	.....	5,000.00
Escambia	FAGS-47	62	.....	Signals at L&N RR Crossing at Century..	.....	7,929.74	.....	.....	.....	7,929.74	.....	.....	7,929.74	7,929.74
Franklin	DA-WR-19	10	.....	Maintenance at Camp Carrabelle . . . . .	.....	.....	154,800.00	.....	154,800.00	.....	.....	.....	154,800.00	154,800.00
Franklin	5151	12	16.7	Road No. 10—National Forest . . . . .	50,000.00	.....	.....	50,000.00	.....	.....	.....	50,000.00	.....	50,000.00
Franklin	FS-Fla-2	341	2.561	Access Road and Flight Strip . . . . .	.....	595,044.85	.....	.....	595,044.85	.....	.....	.....	595,044.85	595,044.85
Gulf	5125	6	4.771	White City - Cypress Creek . . . . .	.....	109,030.37	.....	.....	109,030.37	.....	109,030.37	.....	.....	109,030.37
Jackson	5095	84	15.7	Calhoun Co. Line—Marianna . . . . .	9,000.00	.....	.....	6,820.00	2,180.00	.....	.....	9,000.00	.....	9,000.00
Jackson	FA-3-E	1	7.4	Road No. 6—Cypress . . . . .	.....	.....	464,000.00	.....	464,000.00	.....	232,000.00	.....	232,000.00	464,000.00
Jackson	FA-3-D	1	3.725	Marianna—East . . . . .	.....	136,743.69	.....	.....	136,743.69	.....	34,185.93	.....	102,557.76	136,743.69
Jefferson	5188	291	8.1	Monticello-Georgia State Line . . . . .	30,000.00	.....	.....	21,334.50	8,665.50	.....	.....	30,000.00	.....	30,000.00
Leon	5359	377	3.4	Lake Bradford-Tallahassee . . . . .	13,600.40	.....	.....	.....	13,600.40	.....	.....	13,600.40	.....	13,600.40
Liberty	5579	12	10.8	Franklin Co. Line-Wilma . . . . .	9,400.00	.....	.....	5,000.00	.....	4,400.00	.....	9,400.00	.....	9,400.00
Liberty	5233	12	20.8	Wilma-Bristol . . . . .	5,000.00	.....	.....	5,000.00	.....	.....	.....	5,000.00	.....	5,000.00
Liberty	5448	135	3.3	Telogia-Hosford . . . . .	5,000.00	.....	.....	.....	5,000.00	.....	.....	5,000.00	.....	5,000.00
Okaloosa	5251	165	4.3	Road No. 41—Yellow River . . . . .	30,000.00	.....	.....	30,000.00	.....	.....	.....	30,000.00	.....	30,000.00
Walton	5592	358	5.3	Road No. 552—Holmes Co. Line . . . . .	38,808.00	.....	.....	38,808.00	.....	.....	.....	38,808.00	.....	38,808.00
Walton	5690	552	1.7	Road No. 60-Road No. 358 . . . . .	5,684.80	.....	.....	5,684.80	.....	.....	.....	5,684.80	.....	5,684.80
Santa Rosa	FA-38-B	1	1396'	Escambia Bay Bridge No. 5 . . . . .	.....	.....	349,000.00	.....	.....	349,000.00	174,500.00	.....	174,500.00	349,000.00
Santa Rosa	DA-NR-6	341	1,029	Road No. 1—Spencer Field . . . . .	.....	11,677.30	.....	.....	11,677.30	.....	.....	.....	11,677.30	11,677.30
TOTALS . . . . .					\$ 276,911.64	\$ 1,302,388.51	\$ 1,490,320.00	\$ 292,784.80	\$ 2,372,533.95	\$ 404,301.40	\$ 638,227.75	\$ 276,911.64	\$ 2,154,480.76	\$ 3,069,620.15



## Fourth Division

## STATE ROAD DEPARTMENT OF FLORIDA—CONSTRUCTION BUDGET FOR 1943

## Schedule 2

County	Project No.	Road No.	Length	Description	1943 BUDGET			TYPE OF WORK			FUNDS			Total Funds
					Underway State Forces	Underway Contract	Proposed	Grading	Paving	Structures	State	County	Federal	
Broward	5101	26	5.559	Davie Road - Port Everglades	\$ 27,500.00	\$ 28,551.66	\$ .....	\$ .....	\$ 28,551.66	\$ 27,500.00	\$ 56,051.66	\$ .....	\$ .....	\$ 56,051.66
Broward	.....	6-38	0.748	Ravenswood Road Extension	6,515.75	.....	.....	.....	6,515.75	.....	.....	6,515.75	.....	6,515.75
Broward	DA-NR-14	341	0.645	Road No. 26 - Ft. Lauderdale Naval Air Base	.....	.....	27,681.00	.....	27,681.00	.....	.....	.....	27,681.00	27,681.00
Broward	DA-NR-17	341	2.3	Road No. 149 - Ft. Lauderdale Naval Air Station	.....	.....	35,500.00	.....	35,500.00	.....	.....	.....	35,500.00	35,500.00
Broward	DA-NR-18	341	1.75	Closure Road - Ft. Lauderdale Naval Air Station	.....	.....	50,800.00	.....	50,800.00	.....	.....	.....	50,800.00	50,800.00
Broward	FAGS-6-B	361	.....	Signals West of Pompano	.....	1,287.27	.....	.....	.....	1,287.27	.....	.....	1,287.27	1,287.27
Collier	5200	164	14.879	Hendry Co. Line - South	142,164.56	.....	.....	.....	142,164.56	.....	.....	142,164.56	.....	142,164.56
Collier	FS-Fla-3	341	1.674	Access Road and Flight Strip	.....	649,267.32	.....	.....	649,267.32	.....	.....	.....	649,267.32	649,267.32
Dade	5155	270	1.909	Road No. 4 - Road No. 140	.....	312,481.17	.....	.....	188,627.27	123,853.90	312,481.17	.....	.....	312,481.17
Dade	5277	27	10.713	Miami - Krome Avenue	.....	17,118.26	.....	.....	17,118.26	.....	17,118.26	.....	.....	17,118.26
Dade	DA-WR-16	341	1.4	Main Gate Homestead Airport - Moody Drive	.....	.....	21,000.00	.....	21,000.00	.....	.....	.....	21,000.00	21,000.00
Dade	DA-WR-18	341	3.25	Biscayne Drive (Homestead Airport).....	.....	.....	36,000.00	.....	36,000.00	.....	.....	.....	36,000.00	36,000.00
Dade	FAGM-66	140	.....	SAL RR Signals in Hialeah	.....	6,600.00	.....	.....	.....	6,600.00	.....	.....	6,600.00	6,600.00
Indian River	5011	30	5.045	Vero Beach - West.....	.....	150,642.11	.....	.....	150,642.11	.....	150,642.11	.....	.....	150,642.11
Monroe	DA-WR-3	4-A	0.171	Jewish Creek Bridge.....	.....	196,270.67	.....	.....	.....	196,270.67	.....	.....	196,270.67	196,270.67
Monroe	FS-Fla-4	341	1.628	Access Road and Flight Strip	.....	.....	692,114.00	.....	692,114.00	.....	.....	.....	692,114.00	692,114.00
Monroe	SN-FA-107-B-C&E	4-A	4.111	Stock Island Key - Big Pine Key	.....	885,751.65	.....	.....	.....	885,751.65	221,437.92	.....	664,313.73	885,751.65
Monroe	SN-U-FAS-78	4-A	.....	Key Vacas - Key Largo	1,443,600.00	.....	.....	.....	1,443,600.00	.....	360,900.00	.....	1,082,700.00	1,443,600.00
Monroe	SN-U-FAS-107-DFGH	4-A	.....	Stock Island to Big Pine Key and Key Largo to Florida City	1,122,300.00	.....	.....	.....	1,122,300.00	.....	280,575.00	.....	841,725.00	1,122,300.00
Palm Beach	5268	199	8.674	Hillsborough Canal - Delray Beach	.....	139,324.04	.....	.....	139,324.04	.....	139,324.04	.....	.....	139,324.04
Palm Beach	DA-WR-21	341	4.16	Access to Boca Raton Airport	.....	.....	80,500.00	.....	80,500.00	.....	.....	.....	80,500.00	80,500.00
TOTALS					\$2,742,080.31	\$2,387,294.15	\$ 943,595.00	\$ .....	\$4,831,705.97	\$1,241,263.49	\$1,538,530.16	\$ 148,680.31	\$4,385,758.99	\$6,072,969.46



## Fifth Division

## STATE ROAD DEPARTMENT OF FLORIDA—CONSTRUCTION BUDGET FOR 1943

## Schedule 2

County	Project No.	Road No.	Length	Description	1943 BUDGET			TYPE OF WORK			FUNDS			Total Funds
					Underway State Forces	Underway Contract	Proposed	Grading	Paving	Structures	State	County	Federal	
Brevard	5483	101	1.865	Eau Gallie - Peninsular	\$ 36,318.64	\$ .....	\$ .....	\$ 28,068.64	\$ .....	\$ 8,250.00	\$ 36,318.64	\$ .....	\$ .....	\$ 36,318.64
Brevard	5314	119	1.63	Titusville - Wilson .....	605.00	.....	.....	605.00	.....	.....	605.00	.....	.....	605.00
Brevard	DA-NR-11	341	0.453	State Road No. 24 - Naval Air Base .....	.....	.....	16,232.00	.....	16,232.00	.....	.....	.....	16,232.00	16,232.00
Citrus	5016(2)	15	11.011	Withlacoochee River-Crystal River .....	.....	152,765.18	.....	.....	152,765.18	.....	152,765.18	.....	.....	152,765.18
Lake	FAGM-175-K	8-A	.....	Signals at ACL RR in Leesburg .....	.....	9,302.80	.....	.....	.....	9,302.80	.....	.....	9,302.80	9,302.80
Lake	AW-FA-13(2)	2	0.189	Orange Co. Line - Mt. Dora .....	.....	.....	15,039.00	.....	15,039.00	.....	7,519.50	.....	7,519.50	15,039.00
Lake	FA-175-G	8-A	2.210	Road No. 257 - Road No. 55 (Less Proj. 4120) ..	.....	29,793.85	.....	.....	29,793.85	.....	.....	.....	29,793.85	29,793.85
Lake	FAGM-275-B	8-A	0.567	ACL RR at Minneola ..	.....	8,470.98	.....	.....	.....	8,470.98	.....	.....	8,470.98	8,470.98
Marion	FAGS-63	38	.....	Signals at ACL RR at Weirsdale .....	.....	5,593.20	.....	.....	.....	5,593.20	.....	.....	5,593.20	5,593.20
Orange	FAGM-59	.....	.....	Signals at ACL RR in Maitland .....	.....	6,012.00	.....	.....	.....	6,012.00	.....	.....	6,012.00	6,012.00
Orange	DA-WR-17	341	2.0	Robinson Avenue in Orlando .....	.....	.....	35,000.00	.....	35,000.00	.....	.....	.....	35,000.00	35,000.00
Orange	SN-FA-167-F	3	0.511	Robinson Avenue - Colonial Drive .....	.....	113,283.69	.....	.....	113,283.69	.....	28,320.93	.....	84,962.76	113,283.69
Orange	AW-FA-13(2)	2	8.78	Lake Co. Line - Proj. FA-74-A (2) .....	.....	.....	694,961.00	.....	694,961.00	.....	347,480.50	.....	347,480.50	694,961.00
Orange	DA-WR-20	22	2.65	Mills St. in Orlando-Lake Barton at Air Base ..	.....	.....	378,000.00	.....	378,000.00	.....	.....	.....	378,000.00	378,000.00
Osceola	DA-WR-14	341	1.196	Old Road No. 17 - Army Air Base .....	.....	.....	40,200.00	.....	40,200.00	.....	.....	.....	40,200.00	40,200.00
Putnam	5469	3	7.60	East Palatka - Dunn's Creek .....	3,740.00	.....	.....	1,100.00	2,640.00	.....	3,740.00	.....	.....	3,740.00
Sumter	WPGM-FAGM-170-A	2	0.385	SAL RR at Wildwood ..	.....	32,459.89	.....	.....	.....	32,459.89	.....	.....	32,459.89	32,459.89
Sumter	5642(2)	22	3.270	Bevilles Corner - Center Hill .....	5,561.60	.....	.....	.....	5,561.60	.....	5,561.60	.....	.....	5,561.60
St. Johns	DA-NR-16(1)	48	11.310	Lee Field - Switzerland Field .....	160,000.00	.....	.....	.....	.....	160,000.00	.....	.....	160,000.00	160,000.00
Volusia	5640	44	5.22	Brevard Co. Line - St. Johns River .....	51,451.95	.....	.....	.....	51,451.95	.....	51,451.95	.....	.....	51,451.95
Volusia	DA-NR-15	21	4.299	Road No. 3 - 4.299 Mi. East .....	.....	.....	250,000.00	.....	250,000.00	.....	.....	.....	250,000.00	250,000.00
Volusia	FA-117-A	21	8.636	Daytona - West .....	.....	301,097.53	.....	.....	301,097.53	.....	150,548.77	.....	150,548.76	301,097.53
Volusia	FA-117-B	21	4.155	East of Road 3 - Project 5055 .....	.....	.....	270,075.00	.....	270,075.00	.....	135,037.50	.....	135,037.50	270,075.00
Volusia	5663	44	930/	Timber Bridge .....	641.85	.....	.....	.....	.....	641.85	641.85	.....	.....	641.85
Volusia	5411	3	7.589	Eldridge - Connorsville .....	5,808.00	.....	.....	5,808.00	.....	.....	5,808.00	.....	.....	5,808.00
Volusia	5412	3	2.81	DeLeon Springs - Eldridge .....	.....	9,157.50	.....	9,157.50	.....	.....	9,157.50	.....	.....	9,157.50
Volusia	5473	3	6.41	Connorsville - Putnam Co. Line .....	7,320.00	.....	.....	7,320.00	.....	.....	7,320.00	.....	.....	7,320.00
TOTALS .....					\$ 280,604.54	\$ 658,779.12	\$ 1,699,507.00	\$ 52,059.14	\$ 2,356,100.80	\$ 230,730.72	\$ 942,276.92	\$ .....	\$ 1,696,613.74	\$ 2,638,890.66



DIXIE CULVERT & METAL DIVISION  
**ARMCO DRAINAGE & METAL PRODUCTS, INC.**

Jacksonville

Florida

**W. L. COBB CONSTRUCTION COMPANY**

Incorporated

**GENERAL CONTRACTORS**

Box 977

Tampa, Florida

**H. E. WOLFE CONSTRUCTION COMPANY, Inc.**

St. Augustine, Florida

**M. C. CADDELL**

**GENERAL CONTRACTOR**

P. O. Box 2217

Jacksonville, Florida

**PLYMOUTH CITRUS GROWERS ASSOCIATION**

R. T. Carleton, Secretary-Manager

Organized in 1909

Citrus Marketing Cooperative

**MAYFLOWER AND PLYMOUTH ROCK BRANDS**

**PLYMOUTH**

**FLORIDA**

**FLORIDA-GEORGIA TRACTOR COMPANY**

**CONSTRUCTION EQUIPMENT**

**CONTRACTORS' SUPPLIES**

**ROAD MACHINERY**

**Jacksonville**

— **Lakeland** —

**Miami**

Phone: 7-8408

3-2221

3-7806



# HOOPER CONSTRUCTION COMPANY

1125 Kings Avenue

Jacksonville

Florida

## McLEAN IRON WORKS

Successor to Barnett Iron Works

### Machine Shop and Foundry

Electric and Acetylene Welding  
Iron, Brass and Aluminum Castings

E. C. McLEAN, Owner

Phone 343 - 344

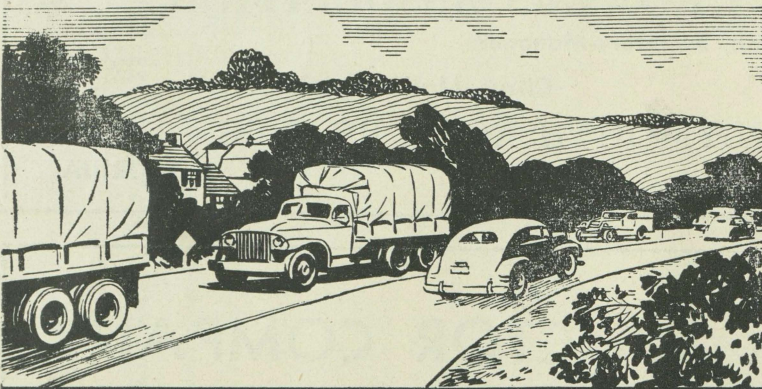
PALATKA, FLORIDA

We rebuild all types of  
Road Machinery, Draglines, Tractors, Pans,  
Bulldozers, Motor Patrols, etc.

We Manufacture  
All Types Highway Castings

Member:

American Road Builders' Association  
Florida Section



**Punishing war-time traffic  
reveals the strength and economy  
of CONCRETE ROADS**

You've seen it happen—a road surface which seemed satisfactory in normal service, broken up rapidly under unexpectedly heavy concentrations of traffic. Soon traffic is paralyzed and an important highway is ruined.

- Such unexpected or emergency traffic spotlights the strength and durability of Concrete. Little affected by wet weather, concrete's high load-carrying capacity gives the extra margin of safety roads need to stand the gaff . . . to keep traffic rolling, keep maintenance costs down.

- Because of its ability to "take it" under emergency or normal traffic growth, for safety, for low cost highway service, concrete is ideal for the roads needed today.

### PORTLAND CEMENT ASSOCIATION

Dept. B2-37, Hurt Bldg., Atlanta, Ga.

**BUY WAR SAVINGS STAMPS AND BONDS**